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CATALOG OF THE TYPE SPECIMENS OF FOSSILS IN THE UNIVERSITY OF CINCINNATI MUSEUM

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INTRODUCTION

The accompanying catalog of type specimens of fossils follows the form set up by Dr. Charles Schuchert and his associates in the Catalogue of Type Specimens of Fossils, Minerals, Rocks, and Ores in the United States National Museum.¹

It lists alphabetically all Holotypes, Paratypes, Cotypes, subsequently figured specimens, and Plastotypes in the fossil collection of the University of Cincinnati Museum. For each entry is given the catalog number, the name of the species, the author's name, the number of specimens if more than one, the kind of type, the formation, the locality, author and place of publication, and a cross reference if the species appears in the list more than once. In a few cases in which a species is not as yet published, the prefix "Chiro" is added to the kind of type.

For discussion and definition of the kinds of type material the reader is referred to Dr. Schuchert's work cited above, and to the catalog of types published by the Ohio State University Geological Museum in 1924.¹

In the latter, Dr. Morningstar gives good condensed definitions of the various grades of types, as follows:

"PRIMARY TYPES OR PROTEROTYPES"

"*Holotype*—A single specimen selected from the original material as the type of a species, or a single specimen upon which a species is based is known as the holotype."

¹Schuchert, U. S. Nat. Mus., Bull. 53, pt. 1, 1905.

²Morningstar, Ohio Jour. Sci., Vol. 24, No. 1, Jan. 1924.

"Paratype—If a holotype has been selected, but if other specimens are also mentioned, described, figured, or in any way aid in the original description, the latter are called paratypes. A species may therefore have both holotype and one or more paratypes."

"Cotypes—If no holotype is selected from the original material, and if two or more specimens are used in describing and figuring a species, these types are known as cotypes."

"Chirotype—Chirotype is the term applied to material described in manuscript form. After the manuscript has been published the chirotype will become either a holotype, paratype, etc."

"SECONDARY OR SUPPLEMENTARY TYPES"

"Plesiotype—A specimen from any locality which is compared with a species already established, and which is described and figured as such, is called a plesiotype."

"ARTIFICIAL MODELS"

"Plastotype—An artificial cast or model made directly from a primary type is called a plastotype."

"FIGURED SPECIMENS"

"A number of specimens are included which cannot be classed as real types, but which have been figured, as for example, Amphibian Coprolites, Fish Spine, etc.; likewise in the same class comes all figured material to which no specific name has been assigned, as *Cythere?* sp., *Palaeoniscus* sp., etc. Such entries are marked figured."

In the University of Cincinnati Museum gummed dots are used to designate type specimens; red dots for Holotypes, Cotypes, and Paratypes, and green dots for others.

Most of the types in the collection are from the collection of S. A. Miller, which came to the University of Cincinnati by purchase in 1917, twenty years after his death. Due largely to the condition in which the collection was received there is doubt regarding a few of the specimens marked by Miller as types. In the cases in which the illustrations could not be matched beyond doubt by the specimens, or in which the specific name given could not be found in the literature, the fact is indicated by a question mark after the type-designation, or by a note under the reference.

The catalog contains 2470 specimens distributed as follows:

Holotypes, 180.

Cotypes, 1593.

Paratypes, 557.

Plesiotypes and figured specimens, 140.

2243. *Acidaspis bucheri* Ulrich (Ms.) Chiro-holotype
Maysville-Corryville (Ord.). Cincinnati, Ohio.
4013. *Actinocrinus albersi* Miller and Gurley Holotype
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 46, pl. 2, figs. 21-23, 1895.
2227. *Actinocrinus blairi* Miller 3 Cotypes
(= *Cactocrinus glans* (Hall))
Burlington group (Miss.). Sedalia, Missouri.
Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 285, pl. 5,
figs. 27-29, 1894. Miller, Adv. Sheets, 18th Rep. Dept.
Geol. Nat. Res. Ind., p. 35, pl. 5, figs. 27-29, 1892.
2228. *Actinocrinus foveatus* Miller and Gurley 3 Cotypes
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 49, pl. 2, figs. 25-26, 1895.
2229. *Actinocrinus jessieae* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 30, pl. 2, figs. 15-16, 1896.
- 2229a. *Actinocrinus jessieae* Miller and Gurley 3 Paratypes
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 30, pl. 2, figs. 15-16, 1896.
2230. *Actinocrinus nodosus* Miller Holotype
(= *Cactocrinus thalia* Hall)
Burlington group (Miss.). Sedalia, Missouri.
Miller, Geol. Surv. Mo., Bull. No. 4, pl. 5, fig. 7, 1891.
2226. *Actinocrinus pettisensis* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 6, pl. 1, figs. 3-4, 1896.
- 2226a. *Actinocrinus pettisensis* Miller and Gurley 67 Paratypes
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 6, pl. 1, figs. 3-4, 1896.
4010. *Actinocrinus senectus* Miller and Gurley Holotype
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
p. 36, pl. 2, figs. 23-25, 1897.
2233. *Actinocrinus spectabilis* Miller and Gurley Holotype
Burlington group (Miss.). Burlington, Iowa.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 9, pl. 3, fig. 3, 1896.

1963. *Actinostroma irregulare* Fenton Holotype
Hamilton group (Dev.). Nora Formation.
2249. *Actinostroma rockfordense* Fenton 4 Cotypes
Nora formation. Rockford, Illinois.
2232. *Agaricocrinus adamsensis* Miller and Gurley Holotype
Burlington group (Miss.). Adams County, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 9,
p. 24, pl. 1, figs. 7-9, 1896.
- 2232a. *Agaricocrinus adamsensis* Miller and Gurley Paratype
Burlington group (Miss.). Adams County, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 9,
p. 24, pl. 1, figs. 7-9, 1896.
3343. *Agaricocrinus illinoisensis* Miller and Gurley Holotype
Burlington group (Miss.). Adams County, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 25, pl. 1, figs. 21-23, 1896.
- 3343a. *Agaricocrinus illinoiensis* Miller 1 Paratype
Burlington group. Adams County, Illinois.
Bull. No. 8, Ill. State Mus. Nat. Hist., p. 25, pl. 1, figs. 21-23,
1896.
3367. *Agaricocrinus splendens* Miller and Gurley Holotype
Keokuk group (Miss.). Crawfordsville, Indiana.
Miller and Gurley, Jour. Cincinnati Soc. Nat. Hist., Vol. 13,
p. 18, pl. 4, fig. 12, 1890. 16th Rep. Dept. Geol. Nat.
Res. Ind., p. 340, pl. 4, figs. 1-2, 1890. Not in 17th report.
3366. *Agaricocrinus splendens* Miller and Gurley Paratype
Keokuk group (Miss.). Crawfordsville, Indiana.
Miller and Gurley, Jour. Cincinnati Soc. Nat. Hist., Vol. 13,
p. 18, 1890.
3793. *Ambonychia cincinnatiensis* Miller and Faber Cotype
(= *Byssonychia vera* Ulrich)
Eden (Ord.). Cincinnati, Ohio.
Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
p. 24, pl. 1, figs. 8-10, 1894.
3794. *Ambonychia cincinnatiensis* Miller and Faber 8 Cotypes (?)
(= *Byssonychia vera* Ulrich)
Eden (Ord.). Cincinnati, Ohio.
Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
p. 24, pl. 1, figs. 8-10, 1894.
3787. *Ambonychia robusta* Miller (Part) 2 Cotypes
(= *Byssonychia richmondensis* Ulrich)
Richmond-Whitewater (Ord.). Richmond, etc., Indiana.
Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 3, p. 315, 1880.
3866. *Amphorocrinus blairi* Miller and Gurley Cotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 26, pl. 1, figs. 45-50, 1896.
4005. *Amphorocrinus jessieae* Miller and Gurley Holotype
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 21, pl. 3, figs. 18-19, 1896.

1394. *Amplexus bicostatus* Miller Holotype and 4 Paratypes
 2237. (See *Amplexus fragilis* White and St. John)
 2237a. Burlington group (Miss.). Sedalia, Missouri.
 Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 618, pl. 1,
 fig. 10, 1892. Miller, Adv. Sheets 17th Rep. Dept. Geol.
 Nat. Res. Ind., p. 8, pl. 1, fig. 10, 1891.
3918. *Amplexus blairi* Miller 3 Cotypes
 3919. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller, Adv. Sheets 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 8, pl. 1, fig. 7, 1891.
2238. *Amplexus corniculum* Miller Holotype and 48 Paratypes
 2238a. Chouteau limestone (Miss.). Pettis, County, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 9, pl. 1, figs. 21-22, 1891.
1394. *Amplexus fragilis* White and St. John Holotype and 4 Paratypes
 2237. (= *Amplexus bicostatus* Miller)
 2237a. Burlington group (Miss.). Sedalia, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 8, pl. 1, fig. 10, 1892. Miller, 17th Rep. Dept. Geol.
 Nat. Res. Ind., p. 8, pl. 1, fig. 10, 1892. White and St.
 John, Trans. Chicago Acad. Sci., Vol. 1, p. 116, 1868.
3789. *Arthropora shafferi* (Meek) 4 Cotypes
 (See *Ptilodictya (Stictopora) shafferi* Meek)
 Maysville-(Bellevue, Corryville) (Ord.). Cincinnati, Ohio.
 Meek, Proc. Acad. Nat. Sci. Philadelphia, p. 317, Ohio Pal.,
 Vol. 1, p. 69, pl. 5, figs. 1a-c, 1873.
4512. *Asidopora eccentrica* (James) Plesiotype
 Eden (Southgate) (Ord.). Cincinnati, Ohio.
 Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 30, fig. 16, 1934.
4519. *Atactoporella ortonii* (Nicholson) Plesiotype
 Maysville (Bellevue) (Ord.). Clover Creek, Cincinnati, Ohio.
 Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 29, fig. 7, 1934.
3868. *Athyris brittsi* Miller Holotype
 Devonian. North Otterville, 17 mi. w. of Sedalia, Missouri.
 Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 314, pl. 9,
 figs. 16-18, 1893.
2242. *Athyris chouteauensis* Miller 100 Cotypes (?)
 (Marked types in Miller Collection)
 Chouteau limestone (Miss.). Cooper County, Missouri.
3872.
 3873. *Athyris ottervillensis* Miller 11 Cotypes
 Devonian. Nr. Otterville, 17 mi. w. of Sedalia, Missouri.
 Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 314, pl. 9,
 figs. 14-15, 1893.
- 511- *Atrypa corrugata* Fenton and Fenton
 513. Holotype and 5 Paratypes
 Traverse (Dev.). No. 23, Rose Quarry, Near Bay Shore,
 Michigan.
 Fenton and Fenton, Am. Mid. Nat., Vol. 12, p. 5, pl. 1,
 figs. 10-13, 1930.

- 561- *Atrypa dignata* Fenton and Fenton Holotype and 2 Paratypes
 563. Traverse (Dev.). No. 22, Rose Quarry, Near Bay Shore, Michigan.
 Fenton and Fenton, Am. Mid. Nat., Vol. 12, p. 11, pl. 2, figs. 10-11, 1930.
- 594- *Atrypa littletonensis* Fenton and Fenton Holotype and 2 Paratypes
 596. Cedar Valley (Dev.).-Littleton, No. 5, Littleton Section. Littleton, Iowa.
 Fenton and Fenton, Am. Mid. Nat., Vol. 12, p. 13, pl. 2, figs. 3-4, 1930.
3968. *Atrypa missouriensis* Miller 5 Cotypes
 3970. Devonian. Near Otterville, 17 mi. w. of Sedalia, Missouri. Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 315, pl. 9, figs. 19-21, 1893.
- 570- *Atrypa petosequa* Fenton and Fenton Holotype and 7 Paratypes
 577. Traverse (Dev.). No. 23, Rose Quarry, Near Bay Shore, Michigan.
 Fenton and Fenton, Am. Mid. Nat., Vol. 12, p. 7, pl. 1, figs. 1-8, 1930.
- 566- *Atrypa petosequa lata* Fenton and Fenton Holotype and 2 Paratypes
 568. Traverse (Dev.). No. 23, Rose Quarry, Near Bay Shore Michigan.
 Fenton and Fenton, Am. Mid. Nat., Vol. 12, p. 9, pl. 1, fig. 9, 1930.
- 580- *Atrypa traversensis* Fenton and Fenton Holotype and 3 Paratypes
 583. Traverse (Dev.). No. 1, Quarry, Mud Lake, E. of Kegomic, Michigan.
 Fenton and Fenton, Am. Mid. Nat., Vol. 12, p. 6, pl. 2, figs. 12-14, 1930.
- 2036- *Aulopora confluens* Fenton 6 Paratypes
 2038. Hackberry—Cerro Gordo, Pugnoides zonule (Dev.). Bird Hill, near Rockford, Iowa.
 M. A. Fenton, Am. Mid. Nat., Vol. 10, p. 380, pl. 2, figs. 5-7, 1927.
- 2022- *Aulopora cerebriformis* Fenton Holotype and 2 Paratypes
 2024. Shellrock—Lepidocentrus zone—Camarophoria zonule (Dev.). Nora Springs, Iowa.
 M. A. Fenton, Am. Mid. Nat., Vol. 10, p. 377, pl. 2, figs. 17-18, 1927.
2033. *Aulopora delicata* Fenton Holotype
 Hackberry—Cerro Gordo Substage—Heliophyllum zonule (?) (Dev.). 1 mi. N. W. of Juniper Hill, near Rockford, Iowa.
 M. A. Fenton, Am. Mid. Nat., Vol. 10, p. 381, pl. 1, figs. 2-4, 1927.

2028. *Aulopora irregularis* Fenton Holotype and Allotype
2029. Shellrock—Aulopora zone—Pachyphyllum zonule (Dev.).
Nora Springs, Iowa.
M. A. Fenton, Am. Mid. Nat., Vol. 10, p. 376, pl. 2, figs.
11–12, 1927.
2040. *Aulopora linearis* Fenton Paratype
Shellrock—Aulopora zone—Alveolites zonule (Dev.). Parker's
Mill, Mason City, Iowa.
M. A. Fenton, Am. Mid. Nat., Vol. 10, p. 378, pl. 2, fig. 16,
1927.
2041. *Aulopora linearis* Fenton Holotype (Part)
Shellrock—Lepidocentrus zone—Camarophoria zonule (Dev.).
Nora Springs, Iowa.
M. A. Fenton, Am. Mid. Nat., Vol. 10, p. 379, pl. 1, fig. 10,
1927.
1409. *Aulopora michiganensis* Fenton Holotype
Traverse. No. 22, Rose Quarry, 6 mi. W. of Petoskey,
Michigan.
1410. *Aulopora michiganensis* Fenton 2 Paratypes
Traverse. No. 22, Rose Quarry, 6 mi. W. of Petoskey,
Michigan.
2034. *Aulopora modulata* Fenton 2 Paratypes
2035. Shellrock—Shizophoria zone (Dev.). Flood Cr., 4 mi. E. of
Rockford, Iowa.
M. A. Fenton, Am. Mid. Nat., Vol. 10, p. 375, pl. 1, figs.
5–9, 1927.
2031. *Aulopora munda* Fenton Holotype and Paratype
2032. Shellrock—Aulopora zone—Pachyphyllum zonule (Dev.).
Nora Springs, Iowa.
M. A. Fenton, Am. Mid. Nat., Vol. 10, p. 377, pl. 2, figs.
12–14, 1927.
- 2025– *Aulopora noraensis* Fenton Holotype and 6 Paratypes
2027. Shellrock — Aulopora zone — Pachyphyllum (Dev.). Nora
2039. Springs, Iowa.
M. A. Fenton, Am. Mid. Nat., Vol. 10, p. 375, pl. 1, fig. 5, pl. 2,
figs. 8–10, 1927.
3894. *Aviculopecten sculptilis* Miller Holotype
Pennsylvanian. Kansas City, Missouri.
Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 702, pl. 20,
fig. 5, 1892. Miller, Adv. Sheets, 17th Rep. Dept. Geol.
Nat. Res. Ind., p. 92, pl. 20, fig. 5, 1891.
3815. *Batocrinus* (abnormal) Miller and Gurley Figured specimen
Burlington group (Miss.). Burlington, Iowa.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 64, pl. 4, figs. 24–25, 1896.
3825. *Batocrinus adamsensis* Miller and Gurley Holotype
Burlington group (Miss.). Adams County, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 14, pl. 1, figs. 33–35, 1896.

3816. *Batocrinus approximatus* Miller and Gurley 2 Cotypes
Burlington group (Miss.). Burlington, Iowa.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 56, pl. 4, figs. 10–12, 1896.
3836. *Batocrinus argutus* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 9, pl. 1, figs. 8–9, 1896.
3826. *Batocrinus asper* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 13, pl. 1, figs. 15–16, 1896.
3828. *Batocrinus asperatus* Miller and Gurley Holotype
Burlington group (Miss.). Adams County, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 12, pl. 1, figs. 13–14, 1896.
3829. *Batocrinus basilicus* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 11, pl. 1, figs. 10–12, 1896.
3215. *Batocrinus blairi* Miller Paratype
(= *Eretmocrinus leucosia*)
Burlington group (Miss.). Sedalia, Missouri.
Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
p. 39, pl. 6, figs. 7–10, 1892.
3216. *Batocrinus broadheadi* Miller and Gurley
3216a. Holotype and Paratype
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 15, pl. 1, figs. 10–11, 1895.
3835. *Batocrinus cognatus* Miller and Gurley Cotype
Burlington group (Miss.). Burlington, Iowa.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 60, pl. 4, fig. 20, 1896.
3219. *Batocrinus divalis* Miller 13 Cotypes
3219a. (= *Dizygocrinus unionensis* var. *divalis* Miller)
Keokuk group (Miss.). Boonville, Missouri.
Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
p. 22, pl. 3, figs. 6–7, 1892.
2189. *Batocrinus douglassi* Miller and Gurley
2189a. Holotype and 14 Paratypes.
Burlington group (Miss.). Bozeman, Montana.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
p. 29, pl. 2, fig. 26, 1897.
3218. *Batocrinus enodis* Miller and Gurley Holotype and Paratype
3218a. Burlington group (Miss.). Burlington, Iowa.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 25, pl. 1, figs. 16–18, 1896.
3865. *Batocrinus folliculus* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.

- Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 15, pl. 1, figs. 36-38, 1896.
3221. *Batocrinus formaceus* Miller and Gurley
3221a. Holotype and 3 Paratypes
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 24, pl. 1, figs. 23-24, 1895.
3837. *Batocrinus germanus* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 5, pl. 1, figs. 1-3, 1896.
3223. *Batocrinus heteroclitus* Miller and Gurley Holotype
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 31, pl. 1, figs. 37-39, 1895.
3823. *Batocrinus hodgsoni* Miller and Gurley Holotype
Burlington group (Miss.). Marblehead, Adams County,
Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 8, pl. 1, figs. 6-7, 1896.
3225. *Batocrinus ignotus* Miller and Gurley Holotype
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 28, pl. 1, figs. 31-33, 1895.
3226. *Batocrinus imparalis* Miller and Gurley
3226a. Holotype and 23 Paratypes
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 20, pl. 1, figs. 17-18, 1895.
3227. *Batocrinus inconsuetus* Miller and Gurley Holotype
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 25, pl. 1, figs. 25-27, 1895.
3228. *Batocrinus incultus* Miller and Gurley
3228a. Holotype and 5 Paratypes
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 21, pl. 1, figs. 19-20, 1895.
3822. *Batocrinus inopinatus* Miller and Gurley Holotype
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 36, pl. 2, figs. 4-6, 1895.
3230. *Batocrinus insolens* Miller and Gurley Holotype and Paratype
3230a. Burlington group (Miss.). Burlington, Iowa.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 35, pl. 2, figs. 1-2, 1896.
3821. *Batocrinus insperatus* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 22, pl. 1, figs. 21-22, 1895.

3827. *Batocrinus insuetus* Miller and Gurley Holotype
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 14, pl. 1, figs. 8-9, 1895.
3231. *Batocrinus jessieae* Miller and Gurley 3 Cotypes
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 20, pl. 1, figs. 27-32, 1896.
3232. *Batocrinus modestus* Miller and Gurley
3232a. Holotype and 6 Paratypes
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 30, pl. 1, figs. 34-36, 1895.
3824. *Batocrinus modulus* Miller and Gurley Holotype
Burlington group (Miss.). Adams County, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 16, pl. 1, figs. 39-41, 1896.
3811. *Batocrinus nanus* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 17, pl. 1, figs. 42-44, 1896.
3830. *Batocrinus nitidulus* Miller and Gurley 4 Cotypes
3831. Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 17, pl. 1, figs. 12-13, 1895.
3233. *Batocrinus nodosus* Miller and Gurley Holotype
Burlington group (Miss.). Adams County, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 9,
p. 5, pl. 1, figs. 1-3, 1896.
3234. *Batocrinus nodulosus* Miller and Gurley Holotype
Burlington group (Miss.). Adams County, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 9,
p. 6, pl. 1, figs. 4-6, 1896.
3832. *Batocrinus parilis* Miller and Gurley Cotype
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 9,
p. 17, pl. 2, figs. 1-2, 1896.
3819. *Batocrinus peculiaris* Miller and Gurley Holotype
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 18, pl. 1, figs. 14-16, 1895.
3236. *Batocrinus planus* Miller and Gurley 3 Cotypes
3236a. Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 37, pl. 2, figs. 11-14, 1895.
3840. *Batocrinus politus* Miller and Gurley Holotype
Burlington group (Miss.). Burlington, Iowa.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 31, pl. 1, figs. 23-25, 1896.

3237. *Batocrinus polydactylus* Miller and Gurley Holotype
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 5, pl. 1, fig. 1, 1895.
3238. *Batocrinus procerus* Miller and Gurley Holotype
Keokuk group. Boonville, Missouri.
Bull. No. 7, Ill. State Mus. Nat. Hist., p. 33, pl. 1, figs. 40-42,
1895.
3820. *Batocrinus proximus* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 7, pl. 1, figs. 4-5, 1896.
3239. *Batocrinus pulchellus* Miller 64 Cotypes
(= *Dizygocrinus unionensis* Worthen)
Keokuk group (Miss.). Boonville, Missouri.
Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
p. 68, pl. 11, figs. 13-14, 1891.
3854. *Batocrinus reliquus* Miller and Gurley Holotype
Burlington group (Miss.). Sharon, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
p. 22, pl. 1, figs. 15-17, 1897.
3241. *Batocrinus remotus* Miller and Gurley Holotype and Paratype
3241a. Burlington group (Miss.). Burlington, Iowa.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 43, pl. 2, figs. 15-17, 1896.
3857. *Batocrinus rotuliformis* Miller and Gurley Holotype
Burlington group (Miss.). Sharon, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
p. 26, pl. 1, figs. 26-27; pl. 2, figs. 1-2, 1897.
3243. *Batocrinus rusticellus* Miller and Gurley
3243a. Holotype and 3 Paratypes
Burlington group (Miss.). Sharon, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
p. 23, pl. 1, figs. 18-21, 1897.
3855. *Batocrinus rusticus* Miller and Gurley Holotype
Burlington group (Miss.). Sharon, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
p. 28, pl. 2, figs. 3-6, 1897.
3244. *Batocrinus sampsoni* Miller and Gurley 2 Cotypes
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 7, pl. 1, figs. 2-3, 1895.
3245. *Batocrinus scitulus* Miller and Gurley Holotype and Paratype
3246. Burlington group (Miss.). Sharon, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
p. 19, pl. 1, figs. 10-11, 1897.
3247. *Batocrinus sedaliensis* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 71, pl. 4, figs. 31-32, 1896.

3248. *Batocrinus senex* Miller and Gurley 4 Cotypes
 3248a. Burlington group (Miss.). Sharon, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
 p. 21, pl. 1, figs. 12-14, 1897.
3249. *Batocrinus serratus* Miller and Gurley
 3249a. Holotype and 3 Paratypes
 Keokuk group (Miss.). Boonville, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 27, pl. 1, figs. 28-30, 1895.
3250. *Batocrinus sharonensis* Miller and Gurley
 3250a. Holotype? and Paratype?
 Burlington group (Miss.). Sharon, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
 p. 18, pl. 1, figs. 7-9, 1897.
3251. *Batocrinus solitarius* Miller and Gurley Holotype
 Burlington group (Miss.). Adams County, Illinois.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
 p. 22, pl. 2, figs. 8-11, 1896.
3252. *Batocrinus variabilis* Miller and Gurley 5 Cotypes
 3252a-c. Burlington group (Miss.). Burlington, Iowa.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
 p. 58, pl. 4, figs. 13-17, 1896.
3253. *Batocrinus venustulus* Miller and Gurley Holotype
 Keokuk group (Miss.). Boonville, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 12, pl. 1, fig. 7, 1895.
868. *Batocrinus venustus* Miller 17 Cotypes
 (= *Dizygocrinus euconus* var. *abscissus* Rowley and Hare)
 Keokuk group (Miss.). Boonville, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 67, pl. 11, figs. 11-12, 1891.
3255. *Batocrinus veterator* Miller and Gurley Holotype and Paratype
 3255a. Keokuk group (Miss.). Boonville, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 8, pl. 1, fig. 4, 1895.
3254. *Batocrinus vetustus* Miller and Gurley Holotype
 Keokuk group (Miss.). Boonville, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 10, pl. 1, figs. 5-6, 1895.
3860. *Batocrinus vicinus* Miller and Gurley Holotype
 Keokuk group (Miss.). Boonville, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 34, pl. 2, figs. 1-3, 1895.
3256. *Batocrinus wachsmuthi* White Cotype
 Keokuk group. Crawfordsville, Indiana.
 12th Rep. U. S. Geol. Surv. Terr., p. 162, pl. 40, figs. 1a-1b,
 1880.
- 3951a. *Bellerophon blairi* Miller and Gurley 13 Cotypes
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,

- p. 21, pl. 3, figs. 7-8, 1896. (Taken from *Bellerophon sedaliensis*—Box 3951).
- 3949- *Bellerophon sedaliensis* Miller and Gurley 5 Cotypes
 3951. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 21, pl. 3, figs. 9-10, 1896.
1322. *Beyrichia hammelli* Miller and Faber 1 slab and Cotypes
 (= *Ctenobolbina hammelli* (Miller and Faber))
 Richmond (Arnheim-Waynesville) (Ord.). Versailles, Indiana.
 Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
 p. 156, pl. 8, fig. 26, 1894. Miller, N. A. Geol. Pal. 2nd
 App., p. 787, fig. 1458, 1897.
- 3912- *Blairella sedaliensis* Miller and Gurley 6 Cotypes
 3915. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 7, pl. 1, figs. 4-8, 1896.
1955. *Buthotrephis* Fenton Plasto-holotype
 Platin No. 14 (Ord.). S. Beckett Hill, Ste. Genevieve
 County, Missouri.
 Walker Museum 25952.
 C. L. Fenton, Am. Mid. Nat., Vol. 11, p. 126, pl. 1, fig. 4, 1928.
849. *Buthotrephis brachiatus* Fenton Plasto-holotype
 Platin, No. 24 (Ord.). S. Beckett Hill, Ste. Genevieve
 County, Missouri.
 Walker Museum 25949.
 C. L. Fenton, Am. Mid. Nat. Vol. 11, p. 126, pl. 1, figs. 2-3,
 1928.
1954. *Buthotrephis brachiatus* Fenton Paratype
 Platin, No. 24 (Ord.). S. Beckett Hill, Ste. Genevieve
 County, Missouri.
 Walker Museum 25953.
1952. *Buthotrephis regularis* Fenton Plasto-holotype
 Platin, No. 14 (Ord.). S. Beckett Hill, Ste. Genevieve
 County, Missouri.
 Walker Museum 25951.
 C. L. Fenton, Am. Mid. Nat. Vol. 11, p. 126, pl. 1, fig. 1, 1928.
3787. *Byssonychia richmondensis* Ulrich 2 Cotypes
 (See *Ambonychia robusta* Miller (Part))
 Richmond (Whitewater) (Ord.). Richmond, Indiana.
 Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 3, p. 315, 1878.
 Ulrich, Geol. Surv. Ohio, Vol. 7, p. 632, pl. 45, figs. 3-4, 1893.
3793. *Byssonychia vera* Ulrich Cotype
 (See *Ambonychia cincinnatiensis* Miller and Faber) Eden
 (Ord.). Cincinnati, Ohio.
 Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
 p. 24, pl. 1, figs. 8-10, 1894. Ulrich, Geol. Surv. Ohio,
 Vol. 7, p. 629, figs. a-c, 1893.
3794. *Byssonychia vera* Ulrich 8 Cotypes ?
 (See *Ambonychia cincinnatiensis* Miller and Faber) Eden
 (Ord.). Cincinnati, Ohio.

- Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17, p. 24, pl. 1, figs. 8-10, 1894. Ulrich, Geol. Surv. Ohio, Vol. 7, p. 629, figs. a-c, 1893.
1321. *Bythopora dendrina* (James) Holotype
(See *Bythopora fruticosa* Miller and Dyer)
Maysville (Fairmount) (Ord.). Cincinnati, Ohio.
Miller and Dyer, Contr. Pal., No. 2, p. 6, pl. 4, figs. 6-6a, 1878. Miller, N. A. Geol. Pal., p. 295, fig. 461, 1889.
1321. *Bythopora fruticosa* Miller and Dyer Holotype
(See *Bythopora dendrina* (James).)
Maysville-Fairmount. Cincinnati, Ohio.
Contr. Pal., No. 2, p. 6, pl. 4, figs. 6-6a, 1878.
Miller, N. A. Geol. Pal., p. 295, fig. 461, 1889.
2227. *Cactocrinus glans* Hall 3 Cotypes
(See *Actinocrinus blairi* Miller)
Burlington group (Miss.). Sedalia, Missouri.
Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 35, pl. 5, figs. 27-29, 1892. 18th Rep. Dept. Geol. Nat. Res. Ind., p. 289, pl. 5, figs. 27-29, 1893.
2230. *Cactocrinus thalia* Hall Holotype
(See *Actinocrinus nodosus* Miller)
Burlington group (Miss.). Sedalia, Missouri.
Miller, Geol. Surv. Mo., Bull. No. 4, p. 33, pl. 5, fig. 7, 1891.
1494. *Camarophoria paupera* Belanski Paratype
Camarophoria zonule—Mason city—substage—Shellrock (Dev.). Nora Springs, Iowa.
Belanski, Bull. State Univ. Ia. Stud. Nat. Hist., Vol. 12, No. 7, p. 27, pl. 4, figs. 6-14, 1928. Am. Mid. Nat., Vol. 11, p. 193, pl. 15, figs. 18-26, 1928.
1466. *Camarophoria prolifica* Belanski Paratype
Hackberry—Owen substage (Dev.), Solenopora zonule. 3 mi. S. of Rockwell, Iowa.
Belanski, Univ. Ia. Stud. Nat. Hist., Vol. 12, No. 7, p. 32, 1928.
3807. *Cancellaria livingstonensis* Miller Holotype
Ripley (Cret.). Livingston, Alabama.
Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 5, pl. 4, figs. 4-4a, p. 86, 1882.
3804. *Caryocrinites ellipticus* (Miller and Gurley) Cotype
(See *Caryocrinus ellipticus* Miller and Gurley)
Clinton (Osgood) (Sil.). Osgood, Indiana.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 5, p. 10, pl. 2, figs. 13-14, 1894.
3804. *Caryocrinus ellipticus* Miller and Gurley Cotype
(= *Caryocrinites ellipticus* (Miller and Gurley))
Clinton (Osgood) (Sil.). Osgood, Indiana.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 5, p. 10, pl. 2, figs. 13-14, 1894.
1460. *Ceraurus pleurexanthemus* Green Plasto-geno-holotype
(Restored)
Trenton (Ord.) Trenton Falls, New York.

- Greene, Monthly Amer. Jour. Geol., Vol. 1, p. 560, pl. 4, fig. 10, 1832.
3923. *Chaenomya longa* Miller and Gurley Cototype
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11, p. 8, pl. 1, figs. 12-13, 1896.
3258. *Clidophorus chicagoensis* Miller 3 Cotypes
Niagara group (Sil.). Chicago, Illinois.
Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 3, p. 314, pl. 8, figs. 2-2a, 1881.
3967. *Clidophorus faberi* Miller 13 Cotypes
Richmond (Ord.). Near Versailles, Indiana.
Miller, N. A. Geol. Pal., p. 471, fig. 795, 1889.
3845. *Codaster blairi* Miller and Gurley Holotype
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7, p. 86, pl. 5, figs. 20-22, 1895.
3814. *Codaster gratiosus* Miller Holotype
Keokuk group (Miss.). Near Bloomfield, Missouri.
Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 2, p. 257, pl. 15, figs. 5-5a, 1880.
3839. *Codaster jessiae* Miller and Gurley Holotype
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10, p. 89, pl. 5, figs. 20-22, 1896.
- 4746- *Collenia columnaris* Fenton and Fenton
4748. Holotype and 2 Paratypes
(Altyn-upper). Near Appekunny Falls, Swift Current Valley, Glacier National Park, Montana.
Fenton and Fenton, Jour. Geol., Vol. 39, p. 682, pl. 1-2, 1931.
4739. *Collenia compacta* Walcott Plesiotype
Near Swift Current Pass, Glacier National Park, Montana.
Fenton and Fenton, Jour. Geol., Vol. 39, p. 684, pl. 8, fig. 2, 1931. Walcott, Smithsonian Misc. Coll., Vol. 64, p. 112, pl. 15, fig. 7, 1914.
4744. *Collenia ? frequens* Walcott 2 Plesiotypes
4745. (Siyeh). Near Swift Current Pass, Glacier National Park, Montana.
Fenton and Fenton, Jour. Geol., Vol. 39, p. 685, pl. 8, fig. 1, 1931. Walcott, Smithsonian Misc. Coll., Vol. 64, p. 113, pl. 10, fig. 3, 1914.
7626. *Collenia symmetrica* Fenton and Fenton Paratype
(Lower siyeh). East Bank Pass.
Fenton and Fenton, Jour. Geol., Vol. 39, p. 683, pls. 3-5, 1931.
4740. *Collenia undosa* Walcott 2 Plesiotypes
4742. (Sheppard). Garden Wall, above Grinnell Glacier, Glacier National Park, Montana.
Fenton and Fenton, Jour. Geol., Vol. 39, p. 684, pl. 6; pl. 7, figs. 3-5, 1931. Walcott, Smithsonian Misc. Coll., Vol. 64, p. 113, pl. 13, figs. 1-2; pl. 14, figs. 1-2, 1914.

3039. *Collettosaurus missouriensis* (Butts) Topotype
(See *Notalacerta missouriensis* Butts)
(Upper Coal Measure). Kansas City, Missouri.
Charles W. Gilmore, Smithsonian Misc. Coll., Vol. 80, No. 3,
p. 58, fig. 30, 1927. Butts, Kansas City Sci., Vol. 5, No. 2,
p. 18, 1891.
1964. *Columnaria halli* Nicholson 2 Plesiotypes
1965. Platin, No. 24 (Ord.). S. Beckett Hill, Ste. Genevieve
County, Missouri.
C. L. Fenton, Am. Mis. Nat., Vol. 11, p. 128, pl. 2, figs. 1-2,
1928.
- 3984- *Conularia blairi* Miller and Gurley 3 Cotypes
3986. Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 3,
p. 73, pl. 7, figs. 14-15, 1894.
3801. *Conularia gattingeri* Safford Plasto-holotype
Trenton (Ord.). Nashville, Tennessee.
Safford, Geol. Tenn., p. 289, 1869.
3803. *Conularia roeperi* Miller and Gurley Holotype
(Coal Measures-Penn.) Luzerne County, Pennsylvania.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
p. 26, pl. 3, figs. 1-2, 1896.
1393. *Conularia sedaliensis* Miller and Gurley 5 Cotypes
1399. Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
p. 28, pl. 3, figs. 4-5, 1896.
3895. *Corydocephalus byrnesanus* (Miller and Gurley) Holotype
(See *Lichas byrnesanus* Miller and Gurley)
Niagaran—(Laurel) (Sil.). Near Madison, Indiana.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 3,
p. 78, pl. 8, figs. 8-9, 1893.
1504. *Cranaena iowensis* (Calvin) Plesiotype
Cedar Valley (Dev.). Randalia, Iowa.
Belanski, Univ. Ia. Stud. Nat. Hist., Vol. 12, No. 8, p. 8, 1929.
5050. *Cranaena romingeri* (Hall) 3 Plesiotypes
Traverse, No. 22 (Dev.). Rose Quarry, Near Bay Shore,
Michigan.
Belanski, Univ. Ia. Stud. Nat. Hist., Vol. 12, No. 8, p. 6, 1929.
- 3974- *Crania blairi* Miller 4 Cotypes
3976. (See *Crania rowleyi* Gurley)
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
p. 56, pl. 9, figs. 5-6, 1892.
1496. *Crania millepunctata* Belanski Paratype
Crania zonule, Rock Grove substage—Shellrock (Dev.).
Ulster township, 5 mi. S. E. of Rudd, Iowa.
Belanski, Am. Mid. Nat., Vol. 11, p. 186, pl. 12, figs. 4-6, 1928.
- 3974- *Crania rowleyi* Gurley 4 Cotypes
3975. (= *Crania blairi* Miller)
Chouteau limestone (Miss.). Sedalia, Missouri.

- Gurley, New Carb. Foss., Bull. No. 1, p. 3, 1883. Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 56, pl. 9, figs. 5-6, 1892.
1469. *Craspedophyllum iowaensis* Belanski 2 Paratypes
1476. Shellrock stage—Mason City Substage (Dev.). *Pachyphyl-
lum zonule*. Nora Springs, Iowa, and Quarry near C. M.
and St. Paul Depot.
3806. *Cristellaria rotulata?* D'Ozbigny 11 Plesiotypes
Ripley or Upper pt. Rotten limestone. Near Livingston,
Alabama.
C. Schlumberger, Jour. Cincinnati Soc. Nat. Hist., Vol. 5,
p. 119, pl. 5, figs. 2-2a, 1882.
1322. *Ctenobolbina hammelli* (Miller and Faber) Cotype
(See *Beyrichia hammelli* Miller and Faber)
Richmond (Arnheim — Waynesville) (Ord.). Versailles,
Indiana.
Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
p. 156, pl. 8, fig. 26, 1894. Miller, N. A. Geol. Pal., 2nd.
App., p. 787, fig. 1458, 1897.
3799. *Cuneamya coriformis* Miller Cotype
Maysville—(McMillan) (Ord.). Cincinnati, Ohio.
Miller, N. A. Geol. Pal., p. 474, figs. 805-806, 1899.
4012. *Cyathocrinus blairi* Miller and Gurley 3 Cotypes
4025. Chouteau limestone (Miss.). Sedalia, Missouri.
4026. Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 67, pl. 4, figs. 11-15, 1895.
4027. *Cyathocrinus blairi* Miller and Gurley Plesiotype
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 50, pl. 3, figs. 21-22, 1896.
1949. *Cyathocrinus boonvillensis* Miller 56 Paratypes
867. Keokuk group (Miss.). Boonville, Missouri.
Miller, Geol. Surv. Mo., Bull. No. 4, p. 29, pl. 4, figs. 3-4, 1891.
3838. *Cyathocrinus brittsi* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 70, pl. 4, figs. 35-36, 1895.
4006. *Cyathocrinus chouteauensis* Miller and Gurley Holotype
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 68, pl. 4, fig. 16, 1895.
4030. *Cyathocrinus chouteauensis* Miller and Gurley Plesiotype
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 9,
p. 38, pl. 2, fig. 24, 1895.
3841. *Cyathocrinus macadamsi* Miller and Gurley 3 Cotypes
3842. St. Louis Group (Miss.). Alton, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 69, pl. 4, figs. 31-32, 1895.

1473. *Cyathophyllum lincolnensis* Belanski Paratype
Shellrock—Nora Substage (Dev.). *Cyathophyllum zonule*.
Whellwood, Iowa.
1397. *Cyclosporgia discus* Miller 2 Cotypes
1398. Helderberg (Dev.). Bunker Hill, Indiana.
Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
p. 5, pl. 1, figs. 8–9, 1891.
1477. *Cylindrophyllum floydense* Belanski Paratype
Shellrock—Mason City Substage (Dev.). *Camarophoria*
zonule. Nora Springs, Iowa.
Balanski, Am. Mid. Nat., Vol. 11, p. 176, pl. 12, fig. 1, 1928.
3795. *Cymatonota cylindrica* (Miller and Faber) 5 Cotypes
3796. (See *Orthodesma cylindricum* Miller and Faber)
Richmond (Waynesville) (Ord.). Warren County, Ohio.
Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
p. 22, pl. 1, figs. 1–4, 1894.
3960. *Cypricardella eximia* Miller and Gurley 4 Cotypes
3961. (= *Microdon? eximia* Miller and Gurley)
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
p. 15, pl. 2, fig. 25, 1896.
3263. *Cypricardella borbyi* Miller Holotype
(= *Microdon? gorbyi* Miller)
Keokuk group (Miss.). Boonville, Missouri.
Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 702, pl. 20,
figs. 6–7, 1891. Miller, Adv. Sheets, 17th Rep. Dept.
Geol. Nat. Res. Ind., p. 92, pl. 20, figs. 6–7, 1891.
106. *Cyrtoceras amoenum* Miller Holotype
Richmond—(Whitewater) (Ord.). Richmond, Indiana.
Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 1, p. 105, pl. 3,
fig. 8, 1878.
102. *Cyrtoceras faberi* James Holotype
Richmond—(Whitewater) (Ord.). Richmond, Indiana.
James, Jour. Cincinnati Soc. Nat. Hist., Vol. 8, p. 246, pl. 4,
figs. 3a–3b, 1886.
300. *Cyrtoceras magister* Miller Holotype
Eden—(Southgate) (Ord.). Columbia Ave., Cincinnati, Ohio.
Miller, Cincinnati Quart. Jour. Sci., Vol. 2, p. 284, Text,
fig. 17, 1875. Miller, N. A. Geol. Pal., p. 434, fig. 729, 1889.
103. *Cyrtoceras tenuiseptum* Faber 2 Cotypes
104. Richmond—(Waynesville) (Ord.). Near Waynesville, Ohio.
Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 9, p. 18, pl. 1,
figs. 3a–3c, 1886.
105. *Cyrtoceras ventricosum* Miller Holotype
Eden—(Southgate) (Ord.). Cincinnati, Ohio.
Miller, Cincinnati Quart. Jour. Sci., Vol. 2, p. 131, fig. 16, 1875.
2187. *Decadocrinus douglassi* (Miller and Gurley) Holotype
(See *Poteriocrinus douglassi* Miller and Gurley)
Bridger Mts. (Miss.). Bozeman, Montana.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 83, pl. 5, figs. 16–17, 1896.

- 1497 *Devonocidaris primaevus* Belanski 24 Cotypes
Eatonia Faunule—Mason City Substage, Shellrock (Dev.).
4 mi. S. E. of Nora Springs, Iowa.
Belanski, Am. Mid. Nat., Vol. 11, p. 184, pl. 13, figs. 29-34,
1928.
2185. *Dichocrinus douglassi* (Miller and Gurley) Holotype
(See *Platycrinus douglassi* Miller and Gurley)
Bridger Mts. (Miss.). Bozeman, Montana.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 86, pl. 5, figs. 18-19, 1896.
- 3987- *Dielasma occidentalis* (Miller) 27 Cotypes
3989. (See *Terebratula occidentalis* Miller)
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
p. 59, pl. 9, figs. 10-13, 1893.
3920. *Discina sampsoni* Miller 3 Cotypes
(= *Orbiculoidea sampsoni* (Miller))
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
p. 80, pl. 13, figs. 10-12, 1891.
868. *Dizygocrinus euconus* var. *abscissus* Rowley and Hare 17 Cotypes
(See *Batocrinus venustus* Miller)
Keokuk group (Miss.). Boonville, Missouri.
Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
p. 67, pl. 11, figs. 11-12, 1891.
3239. *Dizygocrinus unionensis* Worthen 64 Cotypes
(See *Batocrinus pulchellus* Miller)
Keokuk group (Miss.). Boonville, Missouri.
Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
p. 68, pl. 11, figs. 13-14, 1891.
3219. *Dizygocrinus unionensis* var. *divalis* Miller 13 Cotypes
3219a. (See *Batocrinus divalis* Miller)
Keokuk group (Miss.). Boonville, Missouri.
Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
p. 22, pl. 3, figs. 6-7, 1892.
3267. *Dorycrinus suboviformis* Miller and Gurley
3267a. Holotype and 15 Paratypes
Burlington group (Miss.). Sharon, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
p. 30, pl. 2, figs. 7-9, 1897.
1967. *Dystactospongia minor* Ulrich and Everett Plesiotype
Plattin, No. 32 (Ord.). S. Beckett Hill, Ste. Genevieve
County, Missouri.
Fenton, Am. Mid. Nat., Vol. 11, p. 127, 1928. Ulrich and
Everett, Geol. Surv. Ill., Vol. 8, p. 278, pl. 8, figs. 3a-3b, 1890.
1441. *Eatonia gregaria* Belanski Paratype
Shellrock—Mason City Substage (Dev.). Eatonia zonule.
4 mi. S. E. of Nora Springs, Iowa.
Belanski, Am. Mid. Nat., Vol. 11, p. 196, pl. 15, figs. 7-17, 1928.

- 3902- *Edmondia albersi* Miller and Gurley 6 Cotypes
 3904. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 8, pl. 1, figs. 9-11, 1896.
3921. *Elymella missouriensis* Miller and Gurley 2 Cotypes
 3922. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 15, pl. 2, figs. 11-12, 1896.
3808. *Endoceras bristolense* Miller 2 Cotypes
 3809. Richmond—(Maquoketa) (Ord.). Bristol, Illinois.
 Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 5, p. 85, pl. 4,
 figs. 2-2a, 1882.
3268. *Endoceras kentuckiensis* Miller ms. Holotype?
 (Marked type in Miller Coll.)
1320. *Eocidaris blairi* Miller 8 Cotypes
 Keokuk group (Miss.). Boonville, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 73, pl. 12, figs. 1-2, 1891.
3215. *Eretmocrinus leucosia* Hall Paratype
 (See *Batocrinus blairi* Miller)
 Burlington group (Miss.). Sedalia, Missouri.
 Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 39, pl. 6, figs. 7-10, 1892.
3276. *Eucalyptocrinus crassus* Hall Figured specimen
 Niagara group (Sil.). Shelby County, Indiana.
 Wetherby, Jour. Cincinnati Soc. Nat. Hist., Vol. 2, pl. 8,
 figs. 5-8, p. 7, footnote, 1879.
3269. *Eucalyptocrinus (Hypanthocrinus) proboscidalis* Miller
 Plasto-holotype
 Niagara group (Sil.). Pontiac, Ohio.
 Miller, Jour. Cincinnati Soc. Nat. Hist., p. 224, pl. 9, fig. 2,
 Vol. 5, 1882.
1960. *Eunella lincklaeni* Hall Plasto-cotype
 Hamilton (Dev.). Delphi Falls, New York.
 American Museum of Natural History 5219.
3996. *Glossina sedaliensis* Miller 5 Cotypes
 3997. (See *Lingula sedaliensis* Miller)
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 54, pl. 9, fig. 2, 1892.
3955. *Goniatites blairi* Miller and Gurley Holotype
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 35, pl. 4, figs. 4-5, 1896.
3896. *Goniatites jessiae* Miller and Gurley 4 Cotypes
 3897. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 46, pl. 5, figs. 18-20, 1896.
1467. *Gypidula comis* (Owen) Plesiotype
 Cedar Valley—Upper Davenport Substage (Dev.). Solon, Iowa.

- Fenton and Fenton, Univ. Ia. Stud. Nat. Hist., Vol. 12, No. 7, p. 9, 1928.
3146. *Gypidula cornuta* Fenton and Fenton Plesiotype
Hackberry—Cerro Gordo Substage (Dev.), Xenocidaris zonule.
R. B. and T. Co. Pit, Rockford, Iowa.
Fenton and Fenton, The Stratigraphy and Fauna of the
Hackberry Stage of the Upper Devonian, Vol. 1, p. 121,
figs. 26-31, 1924.
1468. *Gypidula cornuta parva* Fenton and Fenton Plesiotype
Hackberry—Cerro Gordo Substage (Dev.), Devonocidaris
zonule. Bird Hill, Near Rockford, Iowa.
Fenton and Fenton, The Stratigraphy and Fauna of the
Hackberry Stage of the Upper Devonian, Vol. 1, p. 123,
pl. 25, figs. 32-35, 1924.
4521. *Hallopora dalei* (Milne—Edwards and Haime) Plesiotype
Thin section
Maysville (Mt. Hope) (Ord.). Cincinnati, Ohio.
G. B. Twitchell Coll.
4511. *Hallopora ramosa* (D'Orbigny) Plesiotype Thin section
Maysville (McMillan) (Ord.). Cincinnati, Ohio.
G. B. Twitchell Coll.
3871. *Heterocrinus heterodactylus* Hall Plesiotype
Eden. Cincinnati, Ohio.
Hall, Pal. New York, Vol. 1, p. 279, pl. 76, figs. 1a-o, 1847.
Meek, Geol. Surv. Ohio. Pal., Vol. 1, p. 12, pl. 1, figs.
1a-1b, 1873.
4510. *Heterotrypa* (On *Monticulipora* on *Platystrophia*) Nicholson
Plesiotype, Thin section
Maysville (Bellevue) (Ord.). Clover Creek, Cincinnati, Ohio.
G. B. Twitchell Coll.
4515. *Heterotrypa* (On *Monticulipora* on *Platystrophia*) Nicholson
Plesiotype, Thin section
G. B. Twitchell Coll.
4517. *Heterotrypa frondosa* (D'Orbigny) Plesiotype, Thin Section
Maysville (Mt. Auburn) (Ord.). Cincinnati, Ohio.
Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 30, fig. 12, 1934.
4524. *Homotrypella hospitalis* (Nicholson) Plesiotype, Thin Section
Maysville (Mt. Auburn) (Ord.).
Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 30, fig. 17, 1934.
4501. *Homotrypella hospitalis* (Nicholson) Plesiotype, Thin section
Mt. Auburn var. Richmond (Waynesville) (Ord.).
G. B. Twitchell Coll.
4522. *Homotrypella hospitalis* (Nicholson) Plesiotype, Thin section
Richmond (Waynesville) (Ord.). Cincinnati, Ohio.
G. B. Twitchell Coll.
3990. *Hustedia triangularis* (Miller) 2 Cotypes
3991. (See *Retzia triangularis* Miller)
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
p. 61, pl. 9, figs. 25-26, 1892.

3384. *Hydreionocrinus depressus* Hall Holotype and 5 Paratypes
 3385. Kaskaskia group (Miss.). Kings Mt.
 Wetherby, Jour. Cincinnati Soc. Nat. Hist., Vol. 3, p. 325,
 pl. 9, figs. 1-4, 6, 1880.
3887. *Hyolithes? dubius* Miller and Faber Cotype
 Richmond (Ord.). Versailles, Indiana.
 Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
 p. 155, pl. 8, fig. 23?, 1894.
3899. *Hyolithes lanceolatus* Miller 3 Cotypes
 3900. Chouteau limestone (Ord.). Sedalia, Missouri.
 Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 317, pl. 9,
 figs. 35-36, 1894.
1334. *Hyolithes versaillesensis* Miller and Faber Cotype
 Richmond (Ord.). Versailles, Indiana.
 Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
 p. 155, pl. 8, figs. 20-22, 1894.
1492. *Hypothyridina magister* Belanski Paratype
 Shellrock (Dev.).—Mason City Substage, Camarophoria
 zonule. Nora Springs, Iowa.
 Belanski, Am. Mid. Nat., Vol. 11, p. 198, pl. 15, figs. 1-6, 1928.
3892. *Igoceras quincyense* (McChesney) Holotype
 (See *Platyceras missouriense* Miller)
 Burlington group (Miss.). Sedalia, Missouri.
 Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 82, pl. 14,
 fig. 2, 1891.
3890. *Igoceras quincyense* (McChesney) 2 Paratypes
 3891. (See *Platyceras pettisense* Miller)
 Burlington group (Miss.). Sedalia, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 81, pl. 14, fig. 1891.
3953. *Leiopteria speciosa* Miller and Gurley 2 Cotypes
 3954. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 13, pl. 2, fig. 10, 1896.
- 3956- *Leiopteria subovata* Miller and Gurley 5 Cotypes
 3959. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 13, pl. 2, figs. 7-9, 1896.
1498. *Lepidocentrus? thomasi* Belanski 12 Cotypes
 Shellrock—Mason City Substage (Dev.), Camarophoria
 faunule. Nora Springs, Iowa.
 Belanski, Am. Mid. Nat., Vol. 11, p. 181, pl. 13, figs. 1-16,
 1928.
3273. *Leptopora gorbyi* Miller 16 Cotypes
 (See *Leptopora typa* Winchell)
 Chouteau limestone (Miss.). Cooper County, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 6, pl. 1, figs. 1-4, 1891.
3273. *Leptopora typa* Winchell 16 Cotypes
 (See *Leptopora gorbyi* Miller)

- Chouteau limestone (Miss.). Cooper County, Missouri.
Winchell, Proc. Acad. Nat. Sci. Phil., p. 3, 1863. Miller,
Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 6,
pl. 1, figs. 1-4, 1891.
3785. *Leptotrypa calceola* (Miller and Dyer) 104 Cotypes
(See *Monticulipora calceola* Miller and Dyer)
Maysville—Corryville (Ord.). Cincinnati, Ohio.
Miller and Dyer, Jour. Cincinnati Soc. Nat. Hist., Vol. 1,
p. 26, pl. 1, figs. 11-11a, 1878.
3895. *Lichas byrnesanus* Miller and Gurley Holotype
(= *Corydocephalus byrnesanus* (Miller and Gurley))
Niagaran—Laurel (Sil.). Near Madison, Indiana.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 3,
p. 78, pl. 8, figs. 8-9, 1893.
599. *Lichenocrinus affinis ashmanni* Faber Figured specimen
Decorah (Ord.). Fountain, Minnesota.
Fenton, Amer. Mid. Nat., Vol. 11, No. 9, p. 498, pl. 37, fig. 12,
1929.
- 10008- *Lichenocrinus columnns* (Unattached) Faber
10010. 3 Figured specimens
McMicken (Ord.). Cincinnati, Ohio.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 457, pl. 27, figs. 1-3,
1929.
10017. *Lichenocrinus crateriformis* Hall 2 Plesiotypes
10022. Waynesville (Ord.). N. of L.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 470, pl. 32, figs. 5-7,
1929.
875. *Lichenocrinus* aff. *crateriformis* Hall Figured specimen
Beloit formation. Black River, Bed 4 (Ord.), Minneapolis,
Minnesota.
Fenton, Amer. Mid. Nat., Vol. 11, No. 9, p. 496, pl. 37,
figs. 5-8, 1929.
10011. *Lichenocrinus* cf. *dubius* Miller Figured specimen
Fairmount (Ord.). Cincinnati, Ohio.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 457, pl. 27, fig. 4,
1929.
3875. *Lichenocrinus dubius* Miller Plesiotype
Cincinnati (Ord.). Cincinnati, Ohio.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 464, pl. 29, fig. 9,
pl. 30, figs. 1-3, 1929.
10016. *Lichenocrinus dubius* Miller Plesiotype
Mt. Hope (Ord.). Mt. Hope Road Quarry, Cincinnati,
Ohio.
Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 3, p. 234, pl. 7,
figs. 5-5a, 1880.
10037. *Lichenocrinus dubius* Miller Plesiotype
McMicken (Fulton reoccurrence) (Ord.), Rapid Run, Cin-
cinnati, Ohio.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 464, pl. 29, fig. 9;
pl. 30, figs. 1-3, 1929.

1390. *Lichenocrinus dyeri* Hall Plesiotype
Maysville—Corryville (Ord.). Cincinnati, Ohio.
Meek, Geol. Surv. Ohio Pal., Vol. 1, pt. 2, p. 51, pl. 3, figs.
2 and 3a-3h, 1873. Faber, Am., Nat., Vol. 11, p. 469,
pl. 27, fig. 5; pl. 34, figs. 7-12, 1929.
10012. *Lichenocrinus dyeri* Hall 3 Plesiotypes
10023. Corryville (Ord.). Fairview Heights, Cincinnati, Ohio.
10024. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 469, pl. 27, fig. 5;
pl. 34, figs. 7-12, 1929.
10046. *Lichenocrinus irregularis* Faber Holotype
Whitewater (Ord.). Dodge Creek, Oxford, Ohio.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 473, pl. 32, fig. 13,
1929.
10040. *Lichenocrinus kemperi* Faber Holotype
Elkhorn (Ord.). 2½ mi. S. of Eaton, Ohio.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 473, pl. 32, figs. 1-4,
1929.
1388. *Lichenocrinus milleri* Faber Paratype
(See *Lichenocrinus tuberculatus* Miller)
Richmond (Ord.). Hill's Mills, Near Richmond, Indiana.
Miller, Jour. Cincinnati Quart. Jour., Vol. 1, p. 346, fig. 38,
1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 476, pl. 33,
figs. 3-9, 1929.
10030. *Lichenocrinus milleri* Faber 2 Paratypes
10047. Elkhorn (Ord.). Osgood, Indiana.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 476, pl. 33, figs. 3-9,
1929.
3878. *Lichenocrinus milleri* Faber Paratype
(See *Lichenocrinus tuberculatus* Miller)
Richmond (Ord.). Hill's Mills, Near Richmond, Indiana.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38,
1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 476, pl. 33,
figs. 3-9, 1929.
10029. *Lichenocrinus milleri* Faber Holotype
Whitewater (Ord.). Near Osgood Pike, or place of type.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 476, pl. 33, figs. 3-9,
1929.
- 10029a. *Lichenocrinus milleri* Faber Paratype
Whitewater (Ord.). Near Osgood Pike or place of type.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 476, pl. 33, figs. 3-9,
1929.
10021. *Lichenocrinus milleri* Faber Paratype
(See *Lichenocrinus tuberculatus* Miller)
Elkhorn (Ord.). Lytle, Near Lebanon, Ohio.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 476, pl. 33, figs. 3-9,
1929.
881. *Lichenocrinus* aff. *nodosus minnesotensis* Faber
Figured Specimen
Beloit Formation—Black River, (bed 4) (Ord.), Minneapolis,
Minnesota.

- Fenton, Am. Mid. Nat., Vol. 11, No. 9, p. 495, pl. 37, figs. 2-3, 1929.
10032. *Lichenocrinus nodosus* Faber Holotype and Paratype
10033. Waynesville (Ord.). Weisburg, Indiana, Cut. 14.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 477, pl. 33, figs. 10-11, 1929.
10006. *Lichenocrinus schlemmeri* Faber Paratype
Southgate (Ord.). Rapid Run Creek, Cincinnati, Ohio.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 466, pl. 31, figs. 1-3, 1929.
10026. *Lichenocrinus shideleri* Faber Holotype and Paratype
10028. Saluda (Ord.). Mixerville, Indiana.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 478, pl. 34, figs. 3-4; pl. 28, fig. 9, 1929.
10025. *Lichenocrinus shideleri regularis* Faber Paratype
Elkhorn (Ord.). Osgood, Indiana.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 479, pl. 34, figs. 1-2; pl. 28, fig. 8, 1929.
1387. *Lichenocrinus shideleri regularis* Faber Paratype
(See *Lichenocrinus tuberculatus* Miller)
Richmond (Ord.). Hill's Mills, Near Richmond, Indiana.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 479, 1929.
10027. *Lichenocrinus shideleri regularis* Faber Holotype
Elkhorn (Ord.). Richmond, Indiana.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 479, pl. 28, fig. 8; pl. 34, figs. 1-2, 1929.
10007. *Lichenocrinus stetteri* Faber Holotype
Southgate (Ord.). Rapid Run Creek, Cincinnati, Ohio.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 466, pl. 30, figs. 4-5, 1929.
1387. *Lichenocrinus tuberculatus* Miller Cotype
(= *Lichenocrinus shideleri regularis* Faber)
Richmond (Ord.). Hill's Mills, Near Richmond, Indiana.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 474, pl. 33, figs. 1-2, 1929.
3978. *Lichenocrinus tuberculatus* Miller 7 Cotypes
3983. Richmond (Ord.). Hill's Mills, Near Richmond, Indiana.
3877. Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 474, pl. 33, figs. 1-2, 1929.
10019. *Lichenocrinus tuberculatus* Miller Plesiotype
Elkhorn (Ord.). 2½ mi. S. of Eaton, Ohio.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 457, pl. 28, fig. 6, 1929.
10021. *Lichenocrinus tuberculatus* Miller Cotype
(= *Lichenocrinus milleri* Faber)
Elkhorn (Ord.). N. of L. and Lytle, near Lebanon, Ohio.

- Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 474, pl. 33, figs. 1-2, 1929. Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874.
10014. *Lichenocrinus tuberculatus* Miller Plesiotype
Elkhorn (Ord.). Whitewater River, Richmond, Indiana.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 474, pl. 28, fig. 1, 1929.
10036. *Lichenocrinus tuberculatus* Miller Plesiotype
Elkhorn (Ord.). Whitewater River, Richmond, Indiana.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 474, pl. 29, fig. 4, 1929.
10035. *Lichenocrinus tuberculatus* Miller Plesiotype
Elkhorn (Ord.). Whitewater River, Richmond, Indiana.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 459 and 474, pl. 29, fig. 3, 1929.
10039. *Lichenocrinus tuberculatus* Miller 2 Plesiotypes
10039a. Elkhorn (Ord.). N. of L.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 460 and 474, pl. 29, figs. 7-8, 1929.
10020. *Lichenocrinus tuberculatus* Miller Plesiotype
Elkhorn (Ord.). Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 459, and 474, pl. 28, figs. 10-11, 1929.
10015. *Lichenocrinus tuberculatus* Miller Plesiotype
Elkhorn (Ord.). N. of L.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 246, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 457 and 474, pl. 28, fig. 3, 1929.
10031. *Lichenocrinus tuberculatus* Miller Plesiotype
Elkhorn (Ord.). Whitewater River, Richmond, Indiana.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 474, pl. 33, fig. 1, 1929.
10034. *Lichenocrinus tuberculatus* Miller Plesiotype
Elkhorn (Ord.). N. of L.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, pp. 460 and 474, pl. 29, fig. 6, 1929.
3878. *Lichenocrinus tuberculatus* Miller 6 Cotypes
1388. (= *Lichenocrinus milleri* Faber)
Richmond (Ord.). Hill's Mills, Near Richmond, Indiana.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 346, fig. 38, 1874. Faber, Am. Mid. Nat., Vol. 11, p. 474, pl. 33, figs. 1-2, 1929.
- 10029a. *Lichenocrinus tuberculatus* Miller Figured specimen
(See *Lichenocrinus milleri* Faber.)
Whitewater. Near Osgood Pike, or place of type.
Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 476, pl. 33, figs. 3-9, 1929.

10001. *Lichenocrinus twitchelli* Faber Holotype and 2 Paratypes
 10002.
 10003.
 10013. Southgate (Ord.). Rapid Run Creek, Cincinnati, Ohio.
 Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 463, pl. 31, figs. 6-10,
 1929.
 10004. *Lichenocrinus vaupeli* Faber Holotype
 Southgate (Ord.). Rapid Run, Cincinnati, Ohio.
 Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 467, pl. 31, figs. 4-5,
 1929.
 10038. *Lichenocrinus* Faber Figured specimen
 Waynesville (Ord.). Cut 14, Weisburg, Indiana.
 Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 457, pl. 29, fig. 5,
 1929.
 10018. *Lichenocrinus* Faber Figured specimen
 Waynesville (Ord.). Cut 14, Weisburg, Indiana.
 Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 457, pl. 28, fig. 5,
 1929.
 10043. *Lichenocrinus* (young) Figured specimen
 Liberty (Ord.). 4 mi. Creek, Oxford, Ohio.
 Faber, Am. Mid. Nat., Vol. 11, No. 9, p. 460, pl. 28, fig. 13,
 1929.
 600. *Lichenocrinus* Figured specimen
 Decorah (Ord.). N. W. $\frac{1}{4}$, S. E. $\frac{1}{4}$, Sec. 35, T10TN, Rx111W,
 Near Rochester, Minnesota.
 Fenton, Am. Mid. Nat., Vol. 11, No. 9, p. 497, pl. 37, fig. 10,
 1929.
 3993- *Lingula gorbyi* Miller 9 Cotypes
 3995. Chouteau limestone (Ord.). Sedalia, Missouri.
 Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 55, pl. 9, figs. 3-4, 1892.
 3938. *Lingula parrishi* Miller 2 Cotypes
 3939. (Pennsylvanian) Layer 85. Kansas City, Missouri.
 Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 53, pl. 8, fig. 2; pl. 9, fig. 1, 1892.
 3996. *Lingula sedaliensis* Miller 5 Cotypes
 3997. (= *Glossina sedaliensis* Miller)
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 54, pl. 9, fig. 2, 1892.
 3936. *Lunulicardium grande* Miller and Gurley 2 Cotypes
 3937. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 5, pl. 1, figs. 1-3, 1896.
 3889. *Lunulicardium retrorsum* Miller and Gurley Cotype
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 6, pl. 2, fig. 26, 1896.
 1971. *Maclurea bigsbyi* var. *dixonensis* Ulrich Plasto-plesiotype
 (= *Maclurites bigsbyi dixonensis* (Ulrich))

- Plattin, No. 27 (Ord.). S. Beckett Hill, Ste. Genevieve County, Missouri.
 Fenton, Am. Mid. Nat., Vol. 11, No. 3, p. 137, pl. 7, figs. 1-3, 1928.
 Walker Museum 33422.
1970. *Maclurea bigsbyi* var. *dixonensis* Ulrich Plasto-plesiotype
 (= *Maclurites bigsbyi dixonensis* (Ulrich))
 Plattin, No. 26, (Ord.). S. Beckett Hill, Ste. Genevieve, Missouri.
 Fenton, Am. Mid. Nat., Vol. 11, No. 3, p. 137, pl. 7, fig. 6, 1928.
 Walker Museum 25936.
- 832a. *Maclurea bigsbyi* var. *dixonensis* Ulrich Plasto-holotype
 832b. (= *Maclurites bigsbyi dixonensis* (Ulrich))
 Mohawkian (Ord.). Dixon, Illinois.
 Ulrich, Geol. Minn., Vol. 3, pt. 2, p. 1039, 1897.
1956. *Maclurina manitobensis* (Whiteaves) Plasto-holotype
 Trenton—Galena (Ord.). Black Island, Swampy Harbor, and Lake Winnipeg.
 Whiteaves, Trans. Roy. Soc. Canada, Vol. 7, Sec. 4, p. 75, pl. 12; pl. 13, figs. 1-2, 1890.
1970. *Maclurites bigsbyi dixonensis* (Ulrich) Plasto-pleisotype
 (See *Maclurea bigsbyi* var. *dixonensis* Ulrich)
 Plattin, No. 26 (Ord.). S. Beckett Hill, Ste. Genevieve County, Missouri.
 Fenton, Am. Mid. Nat., Vol. 11, No. 3, p. 137, pl. 7, fig. 6, 1928.
 Walker Museum 25936.
1971. *Maclurites bigsbyi dixonensis* (Ulrich) 2 Plasto-plesiotypes
 (See *Maclurea bigsbyi* var. *dixonensis* Ulrich)
 Plattin, No. 27 (Ord.). S. Beckett Hill, Ste. Genevieve County, Missouri.
 Fenton, Am. Mid. Nat., Vol. 11, No. 3, p. 137, pl. 7, figs. 1-3, 1928.
 Walker Museum 33422.
- 832a. *Maclurites bigsbyi dixonensis* (Ulrich) Plasto-holotype
 832b. (See *Maclurea bigsbyi* var. *dixonensis* Ulrich)
 Mohawkian (Ord.). Dixon, Illinois.
 Ulrich, Geol. Minn., Vol. 3, pt. 2, p. 1039, 1897.
3334. *Macrochilina blairi* Miller Holotype and 2 Paratypes
 3334a. (= *Soleniscus? blairi* Miller)
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 84, pl. 14, fig. 5, 1891. Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 694, pl. 14, fig. 5, 1892.
- 3930- *Macrodon blairi* Miller and Gurley 20 Cotypes
 3935. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11, p. 11, pl. 2, fig. 19-24, 1896.
3905. *Macrodon facetus* Miller and Gurley 6 Cotypes
 3906. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11, p. 10, pl. 1, fig. 14-16, 1896.

3907. *Macrodon pettisensis* Miller and Gurley 2 Cotypes
 3908. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 10, pl. 2, fig. 17-18, 1896.
3846. *Megistocrinus ornatus* Miller and Gurley 2 Cotypes
 3847. Hamilton group (Dev.). Clark County, Indiana.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 42, pl. 2, figs. 15-17, 1895.
3869. *Metacoceras cavatiforme* Hyatt 3 Plesiotypes
 3870. (Pennsylvanian). Kansas City, Missouri.
 Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 326, pl. 11,
 figs. 5-7, 1894.
- 3998- *Microcyclus blairi* Miller 7 Cotypes
 4000. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 261, pl. 9,
 figs. 27-28, 1894.
3960. *Microdon? eximia* (Miller and Gurley) Cotype
 (See *Cypricardella eximia* Miller and Gurley)
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 15, pl. 2, fig. 25, 1896.
3961. *Microdon? eximia* (Miller and Gurley) 3 Cotypes
 (See *Cypricardella eximia* Miller and Gurley)
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 15, pl. 2, fig. 25, 1896.
3263. *Microdon? gorbyi* Miller Holotype
 (See *Cypricardella gorbyi* Miller)
 Keokuk group (Miss.). Boonville, Missouri.
 Miller, Adv. Sheet, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 92, pl. 20, figs. 6-7, 1891.
3786. *Modiolopsis corrugata* Miller and Faber 4 Cotypes
 (= *Whiteavesia corrugata* (Miller and Faber))
 Maysville—Corryville (Ord.). Cincinnati, Ohio.
 Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 15,
 p. 79, pl. 1, fig. 1, 1892.
3881. *Modiolopsis modiolaris* (Conrad) 2 Plesiotypes
 3882. (Cincinnati) Cincinnati, Ohio?
 Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 149, fig. 17, 1874.
3790. *Modiolopsis pholadiformis* Hall Plesiotype
 (= *Whiteavesia pholadiformis* (Hall))
 Richmond (Ord.). Richmond, Indiana.
 Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 282, 1874.
419. *Monotrypa magna* Ulrich 2 Plesiotypes
 420. Platin, No. 32 (Ord.). S. Beckett Hill, Ste. Genevieve
 County, Missouri.
 Ulrich, Am. Mid. Nat., Vol. 11, No. 2, p. 129, 1928.
3785. *Monticulipora calceola* Miller and Dyer 104 Cotypes
 (= *Leptotrypa calceola* (Miller and Dyer))
 Maysville—Corryville (Ord.). Cincinnati, Ohio.

- Miller and Dyer, Jour. Cincinnati Soc. Nat. Hist. Vol. 1, p. 26, pl. 1, figs. 11-11a, 1878.
4502. *Monticulipora molesta* Nicholson Thin Section
Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 29, fig. 10, 1934.
4520. *Monticulipora epidermata* Ulrich and Bassler Thin Section
Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 29, fig. 11, 1934.
3802. *Mourlonia worthenana* (Miller) Holotype
(See *Murchisonia worthenana* Miller)
Niagaran—Racine (Sil.). Bridgeport, Illinois.
Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 5, p. 225, pl. 9, fig. 3, 1882.
3802. *Murchisonia worthenana* Miller Holotype
(= *Mourlonia worthenana* (Miller))
Niagaran—Racine (Sil.). Bridgeport, Illinois.
Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 5, p. 225, pl. 9, fig. 3, 1882.
753. *Myelodactylus bridgeportensis* Miller 4 Cotypes
785. Niagaran—Racine Dolomite (Sil.). Chicago, Illinois.
Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 3, p. 141, pl. 4, figs. 2a-c, 1880.
- 3924- *Mytilarca jessieae* Miller and Gurley 23 Cotypes
3928. Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11, p. 14, pl. 2, figs. 1-6, 1896.
3782. *Newlandia sarcinula* Fenton and Fenton Holotype
(Altyn). S. Shoulder Spot Mt. Glacier National Park, Montana.
Fenton and Fenton, Jour. Geol., Vol. 39, No. 7, p. 685, pl. 7, figs. 1-2, 1931.
3029. *Notalacerta missouriensis* Butts Topotype
(= *Collettosaurus missouriensis* (Butts))
(Upper Coal Measures) Kansas City, Missouri.
Butts, Kansas City Sci., Vol. 5, No. 2, p. 18, 1891. Charles W. Gilmore, Smithsonian Misc. Coll., Vol. 80, No. 3, p. 58, fig. 30, 1927.
1317. *Nucleocrinus venustus* Miller and Gurley 2 Cotypes
Onondagan—Columbus limestone (Dev.). Columbus, Ohio.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 3, p. 63, pl. 6, figs. 28-30, 1893.
3213. *Orospira bigranosa* Ulrich Plasto-holotype
Cotter, Missouri.
3920. *Orbiculoidea sampsoni* (Miller) 3 Cotypes
(See *Discina sampsoni* Miller)
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 80, pl. 13, figs. 10-12, 1891.
3326. *Orthis (Platystrophia) crassa* James 2 Cotypes?
(= *Platystrophia crassa* (James))
Maysville (Ord.). Cincinnati, Ohio.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 20, 1874.

3307. *Orthis scovillei* Hall and Clarke 7 Cotypes
 (= *Plectorthis (Austinella) scovillei* (Miller))
 Hudson River group (Ord.). Lebanon, Ohio.
 Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 5, p. 40, pl. 1,
 fig. 5, 1882.
360. *Orthoceras albersi* Faber and Miller 5 Cotypes
 361. Trenton—Upper (Ord.). W. Covington, Kentucky.
 1323. Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
 1323a. p. 140, pl. 8, fig. 51-54, 1894.
1331. *Orthoceras byrnesi* Miller 67 Cotypes
 3304. Maysville—Fairmount (Ord.). Cincinnati, Ohio.
 Miller, Cincinnati Quart. Jour. Sci., Vol. 2, p. 126, fig. 13,
 1875. Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 4,
 p. 319, pl. 8, fig. 8, 1881.
3305. *Orthoceras cincinnatiense* Miller Cotype
 Hudson River Group (Ord.). Cincinnati, Ohio.
 Miller, Cincinnati Quart., Jour. Sci., Vol. 2, p. 127, 1875.
 Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 4, p. 319,
 pl. 8, fig. 5, 5a, 1881.
353. *Orthoceras colleti* Miller Holotype
 Pennsylvanian — (Upper Coal Measures). Kansas City,
 Missouri.
 Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 67, pl. 10, fig. 1, 1892. Miller, 18th Rep. Dept. Geol.
 Nat. Res. Ind., p. 321, pl. 10, fig. 1, 1894.
356. *Orthoceras duseri* Hall and Whitfield 3 Cotypes
 (Cotypes of *Orthoceras fosteri* Miller)
 Richmond—Waynesville (Ord.). Clinton County, Ohio.
 Miller, Cincinnati Quart. Jour. Sci., Vol. 2, p. 127, 1875.
 Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 4, p. 319,
 pl. 8, figs. 7-7a, 1881.
351. *Orthoceras dyeri* Miller Plesiotype
 Maysville—Corryville (Ord.). Cincinnati, Ohio.
 Miller, Cincinnati Quart. Jour. Sci., Vol. 2, p. 125, fig. 11, 1875.
352. *Orthoceras dyeri* Miller 2 Cotypes
 Maysville—Corryville (Ord.). Cincinnati, Ohio.
 Miller, Cincinnati Quart. Jour. Sci., Vol. 2, p. 125, fig. 11,
 1875. Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 3,
 p. 236, pl. 7, fig. 7, 1880.
356. *Orthoceras fosteri* Miller 3 Cotypes
 (= *Orthoceras duseri* Hall and Whitfield)
 Richmond—Waynesville (Ord.). Clinton County, Ohio.
 Miller, Cincinnati Quart. Jour. Sci., Vol. 2, p. 127, 1875.
 Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 4, p. 319,
 pl. 8, fig. 7-7a, 1881.
1329. *Orthoceras harperi* Miller 22 Cotypes
 1330. Maysville—Corryville (Ord.). Cincinnati, Ohio.
 Miller, Cincinnati Quart. Jour. Sci., Vol. 2, p. 128, 1875.
 Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 4, p. 319,
 pl. 8, figs. 6-6a, 1881.

357. *Orthoceras ludlowense* Miller and Faber 2 Cotypes
Trenton—upper (Ord.). Ludlow, Kentucky.
Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
p. 139, pl. 7, figs. 1–2, 1884.
354. *Orthoceras mohri* Miller 84 Cotypes
355. Richmond (Ord.). Versailles, Indiana.
Miller, Cincinnati Quart. Jour. Sci., Vol. 2, p. 124, fig. 10, 1875.
1328. *Orthoceras transversum* Miller 34 Cotypes
Eden (Ord.). Cincinnati, Ohio.
Miller, Cincinnati Quart. Jour. Sci., Vol. 2, p. 129, 1875.
Miller, N. A. Geol. Pal., p. 452, fig. 755, 1889.
3795. *Orthodesma cylindricum* Miller and Faber 5 Cotypes
3796. (See *Cymatonota cylindrica* (Miller and Faber)
Waynesville (Ord.). Warren County, Ohio.
Miller, and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
p. 22, pl. 1, figs. 1–4, 1894.
3788. *Orthodesma cymbula* Miller and Faber 2 Cotypes?
(See *Rhytimya mickleboroughi* (Whitfield))
Maysville—Fairmount (Ord.). Cincinnati, Ohio.
Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
p. 143, pl. 8, figs. 7–9, 1894.
3314. *Orthonychia boonvillensis* Miller Holotype and Paratype
- 3314a. (See *Platyceras boonvillense* Miller)
Keokuk group (Miss.). Boonville, Missouri.
Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
p. 82, pl. 14, figs. 15–16, 1891.
1470. *Pachyphyllum websteri* Belanski 2 Paratypes
1478. Shellrock—Mason City Substage (Dev.). *Pachyphyllum*
zonule.
Shale Band near C. M. and St. Paul Depot, Nora Springs,
Iowa.
Belanski, Am. Mid. Nat., Vol. 11, No. 5, p. 171, pl. 12, fig. 3,
1928.
- 3728a. *Paedumias transitans* Walcott 7 Homeotypes
Kintzers Formation (late Eocambrian). Near Fruitville
County, Pennsylvania.
1953. *Paleophycus tubulare* Hall Plasto-Plesiotype
Plattin, No. 15 (Ord.). S. Beckett Hill, Ste. Genevieve
County, Missouri.
Fenton, Am. Mid. Nat., Vol. 11, No. 2, p. 126, pl. 1, fig. 5, 1928.
3952. *Palaeosolen occidentalis* Miller and Gurley 2 Cotypes
3901. Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
p. 16, pl. 2, figs. 13–14, 1896.
3893. *Pasceolus claudeni* Miller 10 Cotypes
Maysville—Bellevue (Ord.). Near Maysville, Kentucky.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 6, fig. 3, 1874.
3310. *Pasceolus darwini* Miller 5 Cotypes?
Miller, Cincinnati Quar. Jour. Sci., Vol. 1, p. 5, figs. 1–2, 1874.

3311. *Pentremites occidentalis* Miller Holotype?
Kaskaskia group (Miss.). Black Hills region, Dakota.
Marked type in Miller Coll.
799. *Periechocrinus pyriformis* Wachsmuth and Springer Cotype
(= *Periechocrinus urniformis* (Miller))
(See *Saccocrinus pyriformis* Miller)
Niagaran—Racine Dolomite (Silurian). Chicago, Illinois.
Miller, Jour. Cin. Soc. Nat. Hist., Vol. 5, p. 81, pl. 3, figs. 3, 3a,
1882.
799. *Periechocrinus urniformis* (Miller) Cotype
(See *Periechocrinus pyriformis* Wachsmuth and Springer).
(See *Saccocrinus pyriformis* Miller)
Niagaran—Racine Dolomite (Sil.). Chicago, Illinois.
Miller, Jour. Cin. Soc. Nat. Hist., Vol. 5, p. 81, pl. 3, figs.
3, 3a, 1882.
4516. *Peronopora vera* Ulrich Thin Section
Fairmount.
Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 30, fig. 15, 1934.
4507. *Peronopora vera* Ulrich Thin Section
Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 29, fig. 6, 1934.
4509. *Peronopora vera* Ulrich Thin Section
Between lamella.
Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 30, fig. 13, 1934.
4515. *Peronopora vera* Ulrich Thin Section
Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 29, figs. 8-9,
1934.
3364. *Phialocrinus harii* (Miller and Gurley) Plesiotype
(See *Aesiocrinus harii* Miller and Gurley)
(Pennsylvanian) Kansas City, Missouri.
Miller and Gurley, Jour. Cin. Soc. Nat. Hist., Vol. 13, p. 16,
pl. 3, fig. 1, 1890.
4851. *Pholidops greenei* Miller and Gurley 17 Cotypes
(Devonian) Charleston, Indiana.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
p. 48, pl. 3, fig. 16-21, 1897.
3312. *Phragmoceras missouriense* Miller Holotype and 5 Paratypes
3312a. Chouteau limestone (Miss.). Pettis County, Missouri.
Miller, 17th Rep. Geol. Surv. Ind., p. 699, pl. 15, fig. 2, 1891.
3966. *Physetomya acuminata* Ulrich Geno-holotype
Maysville—Fairmount (Ord.). Cincinnati, Ohio.
Ulrich, Geol. Surv. Ohio, Vol. 7, p. 693, pl. 49, fig. 12-14, 1893.
3313. *Pisocrinus campana* Miller Holotype and 5 Paratypes
3313a. Niagara group (Sil.). Wabash, Indiana.
Miller, 17th Ann. Rep. Ind. Dep. Geol. Nat. Res., p. 642,
pl. 11, fig. 4-5, 1892.
- 3883- *Pisocrinus gemmiformis* Miller 7 Cotypes
3385. Niagaran group (Sil.). Osgood, Indiana.
Miller, Jour. Cin. Soc. Nat. Hist., Vol. 2, p. 113, pl. 9, figs.
6-6c, 1879.

3314. *Platyceras boonvillense* Miller Holotype and Paratype
 3314a. (= *Orthonychia boonvillensis* Miller)
 Keokuk group (Miss.). Boonville, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 82, pl. 14, fig. 15-16, 1891.
3892. *Platyceras missouriense* Miller Holotype
 (= *Igoceras quincyense* (McChesney))
 Burlington group (Miss.). Sedalia, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 82, pl. 14, fig. 2, 1891.
3890. *Platyceras pettisense* Miller 2 Cotypes
 3891. (= *Igoceras quincyense* (McChesney))
 Burlington group (Miss.). Sedalia, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 81, pl. 14, fig. 1, 1891.
3316. *Platycrinus acclivus* Miller Holotype and 2 Paratypes
 3316a. Burlington group (Miss.). Sedalia, Missouri.
 Miller, Bull. Geol. Surv. Mo., No. 4, p. 12, pl. 1, figs. 9-10,
 1891.
3867. *Platycrinus aequalis* Hall Holotype
 (= *Platycrinus batiola* Miller)
 Burlington group (Miss.). Sedalia, Missouri.
 Miller, Geol. Surv. Mo., Bull. No. 4, p. 22, pl. 3, figs. 1-2, 1891.
3858. *Platycrinus amabilis* Miller 3 Cotypes
 3859. ? Burlington group (Miss.). Sedalia, Missouri.
 Miller, Geol. Surv. Mo., Bull. No. 4, p. 19, pl. 2, fig. 9-10, 1891.
3817. *Platycrinus americanus* Owen and Shumard Marked Holotype
 (= *Platycrinus broadheadi* Miller)
 Burlington group (Miss.). Sedalia, Missouri.
 Miller, Geol. Surv. Mo., Bull. No. 4, p. 21, pl. 2, fig. 15, 1891.
3867. *Platycrinus batiola* Miller Holotype
 (See *Platycrinus aequalis* Hall)
 Burlington group (Miss.). Sedalia, Missouri.
 Miller, Mo. Geol. Surv., Bull. No. 4, p. 22, pl. 3, fig. 1-2, 1891.
2184. *Platycrinus bozemanensis* Miller and Gurley, Holotype and Paratype
 2184a. Burlington group (Miss.). Bozeman, Montana.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
 p. 42, pl. 3, fig. 5, 1897.
3817. *Platycrinus broadheadi* Miller Marked Holotype
 (See *Platycrinus americanus* Owen and Shumard)
 Burlington group (Miss.). Sedalia, Missouri.
 Miller, Geol. Surv. Mo., Bull. No. 4, p. 21, pl. 2, fig. 15, 1891.
3317. *Platycrinus carchesium* Miller Holotype
 (See *Platycrinus pileiformis* Hall)
 Burlington group (Miss.). Sedalia, Missouri.
 Miller, Geol. Surv. Missouri, Bull. No. 4, p. 23, pl. 3, figs.
 6-7, 1891.

3862. *Platycrinus casula* Miller and Gurley Holotype
Burlington (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 76, pl. 4, figs. 37-40, 1895.
4008. *Platycrinus chouteauensis* Miller 3 Cotypes
4028. Chouteau limestone (Miss.). Sedalia, Missouri.
4029. Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 268, pl. 2,
figs. 14-15, 1894.
4018. *Platycrinus clinatus* Miller and Gurley 11 Cotypes
4020- Chouteau limestone, (Miss.). Sedalia, Missouri.
4022. Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 74, pl. 4, figs. 26-30, 1895.
4002. *Platycrinus colletti* Miller 2 Cotypes
4023. Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 268, pl. 2,
figs. 16-17, 1894.
4011. *Platycrinus cortina* Miller and Gurley 3 Cotypes
4024. Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 5,
p. 40, pl. 3, figs. 15-16, 1894.
2368. *Platycrinus discoideus* Owen and Shumard
2369. Holotype and 5 Paratypes
(= *Platycrinus pulchellus* (*pulcellus*) Miller)
Burlington group (Miss.). Sedalia, Missouri.
Miller, Bull. Geol. Surv. Mo. No. 4, p. 11, pl. 1, fig. 7, 1891.
2185. *Platycrinus douglassi* Miller and Gurley Holotype
(= *Dichocrinus douglassi* (Miller and Gurley)
Bridger Mts. (Miss.). Bozeman, Montana.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
p. 86, pl. 5, fig. 18-19, 1896.
3322. *Platycrinus excavatus* Hall Holotype and 4 Paratypes
3322a. (= *Platycrinus sulcatus* Miller)
Burlington group (Miss.). Sedalia, Missouri.
Miller, Geol. Surv. Mo., Bull. No. 4, p. 16, pl. 2, fig. 2, 1891.
4009. *Platycrinus formosus* Miller and Gurley 9 Cotypes
3805. Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 72, pl. 4, figs. 20-21, 1895.
3318. *Platycrinus gorbyi* Miller Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller, Geol. Surv. Mo. Bull. No. 4, p. 15, pl. 1, fig. 14, 1891.
3818. *Platycrinus hodgsoni* Miller and Gurley Holotype
Burlington group (Miss.). Adams County, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 63, pl. 5, figs. 8-9, 1896.
3851. *Platycrinus illinoisensis* Miller and Gurley 2 Cotypes
3852. Burlington group (Miss.). Adams County, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 62, pl. 5, figs. 5-7, 1896.

4016. *Platycrinus missouriensis* Miller and Gurley Holotype
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 73, pl. 4, figs. 22-23, 1895.
3319. *Platycrinus modestus* Miller and Gurley
3319a. Holotype and 9 Paratypes
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 77, pl. 4, figs. 43-45, 1895.
4017. *Platycrinus pettensis* Miller and Gurley 4 Cotypes
4019. Chouteau limestone (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 73, pl. 4, figs. 24-25, 1895.
3317. *Platycrinus pileiformis* Hall Holotype
(= *Platycrinus carchesium* Miller)
Burlington group (Miss.). Sedalia, Missouri.
Miller, Geol. Surv. Mo., Bull. No. 4, p. 23, pl. 3, figs. 6-7, 1891.
2368. *Platycrinus pulchellus* (*pulcellus*) Miller
2369. Holotype and 5 Paratypes
(See *Platycrinus discoideus* Owen and Shumard)
Burlington group (Miss.). Sedalia, Missouri.
Miller, Geol. Surv. Mo., Bull. No. 4, p. 11, pl. 1, fig. 7, 1891.
3843. *Platycrinus semifusus* Miller and Gurley 2 Cotypes
3844. Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 77, pl. 4, figs. 41-42, 1895.
3321. *Platycrinus sharonensis* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
p. 42, pl. 3, figs. 6-7, 1897.
3322. *Platycrinus sulcatus* Miller Holotype and 4 Paratypes
3322a. (See *Platycrinus excavatus* Hall)
Burlington group (Miss.). Sedalia, Missouri.
Miller, Geol. Surv. Missouri, Bull. No. 4, p. 16, pl. 2, fig. 2,
1891.
3323. *Platycrinus sulciferus* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 75, pl. 4, figs. 33-34, 1895.
3324. *Platycrinus tugurium* Miller and Gurley Holotype
Burlington group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 70, pl. 4, figs. 17-19, 1895.
3326. *Platystroma crassa* (James) 2 Cotypes?
(See *Orthis* (*Platystrophia*) *crassa* James)
Maysville (Ord.). Cincinnati, Ohio.
Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 20, 1874.
3307. *Plectorthis* (*Austinella*) *scovillei* (Miller),
7 Cotypes of S. A. Miller?
(See *Orthis scovillei* Hall & Clarke)

- Hudson River group (Ord.). Lebanon, Ohio.
 Miller, Jour. Cin. Soc. Nat. Hist., Vol. 5, p. 40, pl. 1, fig. 5,
 1882.
3863. *Poteriocrinus altonensis* Miller and Gurley 2 Cotypes
 3864. St. Louis (Miss.). Alton, Illinois.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 62, pl. 4, figs. 3-4, 1895.
3327. *Poteriocrinus blairi* Miller and Gurley Holotype
 Burlington group (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 61, pl. 4, figs. 1-2, 1895.
2186. *Poteriocrinus bozemanensis* Miller and Gurley Holotype
 Bridger Mts. (Miss.). Bozeman, Montana.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
 p. 82, pl. 5, figs. 10-11, 1896.
4014. *Poteriocrinus broadheadi* Miller & Gurley 6 Cotypes
 4031. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 63, pl. 4, figs. 7-8, 1895.
2187. *Poteriocrinus douglassi* Miller & Gurley Holotype
 (= *Decadocrinus douglassi* (Miller and Gurley))
 Bridger Mts. (Miss.). Bozeman, Montana.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 10,
 p. 83, pl. 5, figs. 16-17, 1896.
3402. *Poteriocrinus porrectus* (Miller) Holotype
 (See *Scaphiocrinus porrectus* Miller)
 Keokuk group (Miss.). Crawfordsville, Indiana.
 Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 652, pl. 7,
 fig. 2, 1892.
3392. *Poteriocrinus sampsoni* Miller & Gurley
 3393. Holotype and 2 Paratypes
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 65, pl. 4, figs. 9-10, 1895.
1474. *Prismatophyllum oweni* Belanski Paratype and Metatype
 1472. Shellrock—Nora Substage, Prismatophyllum zonule (Dev.).
 Rudd, Iowa.
 Belanski, Am. Mid. Nat., Vol. 11, No. 5, p. 174, pl. 12, fig. 2,
 1928.
1493. *Productella fragilis* Belanski Paratype
 Rock Grove Substage—Shellrock, Productella faunule (Dev.),
 Rudd, Iowa.
 Belanski, Am. Mid. Nat., Vol. 11, No. 5, p. 192, pl. 14, figs.
 15, 17, 1928.
3942. *Productus blairi* Miller 44 Cotypes
 3943. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 689, pl. 13,
 figs. 16-17, 1892.
1310. *Pterinea cincinnatiensis* Miller and Faber 12 Cotypes
 Maysville-Fairmount (Ord.). Cincinnati, Ohio.

- Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17, p. 25, pl. 1, figs. 11-12, 1894.
3394. *Pterinea rugatula* Miller and Faber 3 Cotypes and 4 Metatypes
- 3797.
3798. Maysville—Fairmount (Ord.). Cincinnati, Ohio.
Miller and Faber, Jour. Cin. Soc. Nat. Hist., Vol. 17, p. 26, pl. 1, figs. 18-19, 1894.
- 3329- *Pterinopecten sedaliensis* Miller 16 Cotypes
- 3329b. Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, Adv. Sheets 17th Rep. Dept. Geol. Nat. Res. Ind., p. 93, pl. 20, figs. 8-9, 1891.
3789. *Ptilodictya (Stictopora) shafferi* Meek 4 Cotypes
(See *Arthropora shafferi* (Meek))
Maysville—Bellevue, Corryville (Ord.).
Meek, Proc. Acad. Nat. Sci. Phil., p. 317, 1872. Meek, Pal. Ohio Vol. 1, p. 69, pl. 5, figs. 1a-c, 1873.
- 3971- *Ptychospira plicata* (Miller) 3 Cotypes
3973. (See *Retzia plicata* Miller)
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 316, pl. 9, figs. 29-31, 1894.
1587. *Rafinesquina minnesotensis* (Winchell) 2 Plasto-plesiotypes
1588. (See *Strophomena deltoidea* Owen)
Plattin, No. 40 (Ord.). S. Beckett Hill, Ste. Genevieve County, Missouri.
Owen, Geol. Expl. Iowa, Wisconsin and Ill., pl. 16, fig. 8, pl. 17, fig. 6, 1844. C. L. Fenton, Am. Mid. Nat., Vol. 11, No. 3, p. 130, pl. 2, fig. 8, 1928. Walker Museum 25508 and 25512.
3992. *Retzia circularis* Miller 14 Cotypes
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 316, pl. 9, fig. 32-34, 1894.
3971. *Retzia plicata* Miller
3972. (= *Ptychospira plicata* (Miller)) 9 Cotypes
3973. Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 316, pl. 9, figs. 29-31, 1894.
3990. *Retzia triangularis* Miller 4 Cotypes
3991. (= *Hustedia triangularis* (Miller))
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind., p. 61, pl. 9, figs. 25-26, 1892.
4514. *Rhombotrypa quadrata* Chiro-plesiotype
Thin section
- Twitchell, Amer. Mid. Nat., Vol. 15, No. 6, pl. 30, fig. 14, 1934.
3337. *Rhynchotrema increbescens* (Hall) 26 Cotypes
- 3337a. (See *Rhynchotrema quadriplicata* Miller)
Trenton group (Ord.). Paris, Kentucky.
Miller, N. A. Geol. Pal., p. 370, fig. 608, 1889.

3337. *Rhynchotretra quadriplicata* Miller 26 Cotypes
 3337a. (See *Rhynchotrema increbescens* (Hall))
 Trenton group (Ord.). Paris, Kentucky.
 Miller, N. A. Geol. Pal., p. 370, fig. 608, 1889.
3788. *Rhytimya mickleboroughi* (Whitfield) 2 Cotypes
 (= *Orthodesma cymbula* Miller and Faber)
 Maysville—Fairmount (Ord.). Cincinnati, Ohio.
 Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
 p. 143, pl. 8, figs. 7–9, 1894.
3338. *Rusophycus montanense* Miller? 2 Cotypes?
 Burlington group (Miss.). Bridger Mts., Montana.
 Marked types in Miller's collection.
3398. *Saccocrinus marcouensis* Miller 5 Plesiotypes
 3399. Niagara group (Sil.). Bridgeport, Illinois.
 Miller, Cincinnati Soc. Nat. Hist., Vol. 4, p. 167, pl. 4, figs.
 1–1a, July 1881.
799. *Saccocrinus pyriformis* Miller Cotype
 (= *Periechocrinus urniformis* (Miller))
 (= *Periechocrinus pyriformis* Wachsmuth and Springer)
 Niagaran—Racine Dolomite (Sil.). Chicago, Ill.
 Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 5, p. 81, pl. 3,
 figs. 3, 3a, 1882.
3339. *Scaphiocrinus boonvillensis* Miller Holotype and 18 Paratypes
 3339a. Keokuk group (Miss.). Boonville, Miss.
 Miller, Geol. Surv. Mo., Bull. No. 4, p. 37, pl. 5, figs. 1–2, 1891.
3402. *Scaphiocrinus porrectus* Miller Holotype and Paratype
 3403. (See *Poteriocrinus porrectus* Miller)
 Keokuk group (Miss.). Crawfordsville, Ind.
 Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 652, pl. 7,
 fig. 2, 1892.
3962. *Schizodus sedaliensis* Miller and Gurley Holotype
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 17, pl. 2, fig. 15–16, 1896.
- 347–350. *Schizophoria meeki* Fenton and Fenton Allotype and 8 Paratypes
 Cedar Valley (Dev.). Profunda zonule? E. of Waverly, Iowa.
 Fenton and Fenton, Am. Mid. Nat., Vol. 11, No. 5, p. 160,
 pl. 11, figs. 3–8, 1928.
3344. *Shumardocrinus concinnus* Miller and Gurley
 3344a. Holotype and Paratype
 (= *Steganocrinus concinnus* Shumard)
 Burlington group (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 41, pl. 2, figs. 7–10, 1895.
3334. *Soleniscus blairi* Miller 2 Paratypes
 (See *Macrochilinea blairi* Miller)
 Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
 p. 84, pl. 14, fig. 5, 1891.

3909. *Sphenotus sinuatus* Miller and Gurley 4 Cotypes
 3910. Chouteau limestone (Miss.). Sedalia, Missouri.
 3911. Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 9, pl. 2, figs. 29-30, 1896.
 3345. *Spirifer approximatus erraticus* Belanski 2 Paratypes
 1495. *Spirifer cardinalis* Belanski Paratype
 Etonia Faunule, Mason City Substage—Shellrock (Dev.).
 4 mi. S. E. of Nora Springs, Iowa.
 Belanski, Am. Mid. Nat., Vol. 11, p. 201, pl. 16, figs. 23-30, 1928.
 3347- *Spirifer varians* 3 Paratypes
 3349. *Spirifer varians* Paratype
Spirifer varians Paratype
 3350. *Spirifer varians fallox* Paratype
 3351. *Spirifer varians flexuosus* 2 Paratypes
 3947. *Spirorbis blairi* Miller and Gurley 2 Cotypes
 3948. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 89, pl. 5, figs. 14-15, 1895.
 3352. *Steganoecrinus blairi* Miller and Gurley Holotype
 Burlington group (Miss.). Sharon, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12,
 p. 35, pl. 2, fig. 21-22, 1897.
 3344. *Steganoecrinus concinnus* Shumard Holotype and Paratype
 3344a. (See *Shumardocrinus concinnus* Miller and Gurley)
 Burlington group (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
 p. 41, pl. 2, figs. 7-10, 1895.
 3353. *Steganoecrinus sharonensis* Miller and Gurley
 3353a. Holotype and Paratype
 Burlington group (Miss.). Sharon, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 12
 p. 32, pl. 2, figs. 10-12, 1897.
 3853. *Stephanocrinus hammelli* Miller 2 Cotypes
 Clinton—Osgood (Sil.). Near Big Creek P. O., Jefferson
 County, Indiana.
 Miller, 17th Rep. Dept. Geol. and Nat. Res. Ind., p. 635,
 pl. 6, figs. 7-9, 1892.
 3800. *Stephanocrinus osgoodensis* Miller 3 Cotypes
 3813. Clinton—Osgood (Sil.). Osgood, Indiana.
 3812. Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 2, p. 116, pl. 10,
 figs. 7-7a, 1879. Miller, 17th Rep. Dept. Geol. Nat. Res.
 Ind. p. 632, pl. 6, figs. 1-4, 1892.
 3944- *Straparollus blairi* Miller 9 Cotypes
 3946. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 696, pl. 15,
 fig. 3, 1892.
 3963- *Straparollus missouriensis* Miller and Gurley 15 Cotypes
 3965. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 11,
 p. 20, pl. 2, figs. 35-36, 1896.

812. *Streptelasma corniculum medium* Fenton
 828. Paratype and 3 Metatypes
 Platin, No. 26 (Ord.). S. Beckett Hill, Ste. Genevieve
 County, Missouri.
 Fenton, Am. Mid. Nat., Vol. 11, No. 3, p. 128, pl. 2, figs. 5-7,
 1928.
1584. *Streptorhynchus neglecta* James 2 Plasto-plesiotypes
 1585. (= *Strophomena neglecta* (James))
 Richmond (Ord.). Blanchester, Ohio.
 James, Paleontologist Vol. 5, p. 41, 1881. Fenton, Am. Mid.
 Nat. Vol. 11, No. 3-4, p. 157, pl. 8, figs. 8-9, 1928.
1586. *Streptorhynchus (Strophomena) vetusta*, James Plast-plesiotype
 (= *Strophomena vetusta* (James))
 Richmond (Ord.). Blanchester, Ohio.
 James, Cin. Quart. Jour. Sci. Vol. 1, p. 241, 1874. Fenton,
 Am. Mid. Nat. Vol. 11, No. 3-4, p. 156, pl. 9, figs. 9-11, 1928.
 Walker Museum 25545.
1499. *Stropheodonta cicatricosa* Belanski Paratype
 Camarophoria Faunule, Mason City Substage—Shellrock
 (Dev.). Nora Springs, Iowa.
 Belanski, Am. Mid. Nat., Vol. 11, No. 4, p. 189, pl. 14, figs.
 11-14, 1928.
- 1573- *Strophomena auburnensis* Fenton Plasto-holotype,
 1576. 2 Plasto-paratypes,
 2 Plasto-allotypes
 Auburn chert (Ord.). Auburn, Missouri.
 Fenton, Am. Mid. Nat., Vol. 11, No. 3-4, p. 148, pl. 9, figs.
 1-3, 1928 May-July.
 Walker Museum 25522, 25523, 25521, respectively.
1577. *Strophomena delicatula* Fenton
 800. Plasto-holotype and Plasto-paratype
 Decorah (Ord.). 2½ mi. w. of Ste. Genevieve County,
 Missouri.
 Fenton, Am. Mid. Nat., Vol. 11, Nos. 3-4, p. 155, pl. 9,
 figs. 4-6, 1928.
 Walker Museum 25537 and 25538.
1578. *Strophomena delicatula* Fenton 2 Plasto-allotypes
 Decorah (Ord.). 2½ mi. w. of Ste. Genevieve County,
 Missouri.
 Fenton, Am. Mid. Nat., Vol. 11, Nos. 3-4, p. 155, pl. 9,
 figs. 4-6, 1928.
 Walker Museum 33400.
1587. *Strophomena delloidea* Owen 2 Plasto-plesiotypes
 (= *Ranfiesquina minnesotensis* (Winchell))
 Platin No. 40 (Ord.). S. Beckett Hill, Ste. Genevieve
 County, Missouri.
 Owen, Geol. Expl. Iowa, Wisconsin & Illinois, pl. 16, fig. 8,
 pl. 17, fig. 6, 1844. Fenton, Am. Mid. Nat. Vol. 11, p. 130,
 pl. 2, fig. 8, 1928.
 Walker Museum 25508 and 25512.

1588. *Strophomena deltoidea* Owen Plasto-plesiotype
 (= *Rafinesquina minnesotensis* (Winchell))
 Upper Plattin (Ord.). Gabouri Creek, near Ste. Genevieve,
 Mo.
 Owen, Geol. Expl. Iowa, Wisconsin and Illinois, pl. 16, fig. 8,
 pl. 17, fig. 6, 1844.
1580. *Strophomena dignata* Fenton Plasto-paratype, Plasto-holotype
 1581. and 2 Plasto-allotypes
 1594. Decorah (Ord.). 2½ mi. w. of Ste. Genevieve County,
 Missouri.
 Fenton, Am. Mid. Nat., Vol. 11, Nos. 3-4, p. 151, pl. 10,
 figs. 3-5, 1928.
 Walker Museum 25532, 25533, 25535, respectively.
1582. *Strophomena exigua* Fenton Plasto-holotype and Plasto-
 1583. paratype
 Plattin No. 41 (Ord.). S. Beckett Hill, Ste. Genevieve
 County, Missouri.
 Fenton, Am. Mid. Nat. Vol. 11, Nos. 3-5, p. 152, pl. 10,
 fig. 6, 1928.
 Walker Museum 25956, 25957.
- 4752- *Strophomena filitexta* Meek 5 Plasto-cotypes
 4755. (See *Strophomena neglecta* (James))
 Black River (Ord.). Middleville, New York.
 Meek, Pal. Ohio, Vol. 1, p. 83, pl. 6, fig. 5, 1873. Amer.
 Museum Natural History 702
 1
1570. *Strophomena inconsueta* Fenton 2 Plasto-holotypes and
 1571. Plasto-paratype
 Plattin No. 16 (Ord.). S. Beckett Hill, Ste. Genevieve
 County, Missouri.
 Fenton, Am. Mid. Nat., Vol. 11, Nos. 3-4, p. 154, pl. 10,
 fig. 2, 1928.
 Walker Museum 25987, 25989.
- 1567- *Strophomena musculosa* Fenton Plasto-holotype, 2 Plasto-
 1569. allotypes and 2 Plasto-paratypes
 1572. Decorah (Ord.). Fountain, Minn.
 Fenton, Am. Mid. Nat., Vol. 11, Nos. 3-4, p. 153, pl. 8,
 fig. 6-7, 1928.
 Walker Museum, 25524, 25525, 25527.
- 4752- *Strophomena neglecta* (James) 5 Plasto-cotypes
 4755. (See *Strophomena filitexta* Meek)
 Black River (Ord.). Middleville, New York.
 Foerste, Bull. Sci. Lab. Denison Univ., Vol. 17, pl. 5, figs.
 1, 3; pl. 7, fig. 5; pl. 9, fig. 1; pl. 11, fig. 10; 1912.
 Meek, Pal. Ohio, Vol. 1, p. 83, pl. 6, fig. 5, 1873.
1584. *Strophomena neglecta* (James) 2 Plasto-plesiotypes
 1585. (See *Streptorhynchus neglecta* James)
 Richmond (Ord.). Blanchester, Ohio.
 Fenton, Am. Mid. Nat., Vol. 11, Nos. 3-4, p. 157, pl. 8,
 figs. 8, 9, 1928.

- James, Pal. Vol. 5, p. 41, 1881.
Walker Museum 25544.
- 1562- *Strophomena plattinensis* Fenton Plasto-allotype, 4 Plasto-
1566. paratypes and Plasto-holotype
1595. Plattin, No. 41 (Ord.). S. Beckett Hill, Ste. Genevieve
County, Missouri.
Fenton, Am. Mid. Nat., Vol. 11, Nos. 3-4, p. 149, pl. 10,
figs. 7-9, 1928.
Walker Museum 25983, 25501, 25514, 25988.
1586. *Strophomena vetusta* (James) Plasto-plesiotype
(See *Streptorhynchus* (*Strophomena*) *vetusta* James)
Upper Plattin (Ord.). Gabouri Creek, near Ste. Genevieve
County, Missouri.
Fenton, Am. Mid. Nat., Vol. 11, Nos. 3-4, p. 156, pl. 9,
figs. 9-11, 1928.
Walker Museum 25545.
1589. *Strophomena winchelli* Hall and Clarke Plasto-plesiotype
Upper Plattin (Ord.). Gabouri Creek, near Ste. Genevieve
County, Missouri.
Fenton, Am. Mid. Nat., Vol. 11, Nos. 3-4, p. 150, pl. 9,
fig. 8, 1928.
Walker Museum 25513.
3355. *Strotocrinus blairi* Miller and Gurley Holotype
Burlington Group (Miss.). Sedalia, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 48, pl. 2, fig. 24, 1895.
3356. *Strotocrinus ornatus* Miller and Gurley Holotype
Burlington group (Miss.). Burlington, Iowa.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 30, pl. 2, figs. 12-14, 1896.
3848. *Synbathocrinus illinoisensis* Miller and Gurley
3849. Holotype and 6 Cotypes
Burlington group (Miss.). Adams County, Illinois.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 8,
p. 53, pl. 3, figs. 29-31, 1896.
3886. *Technophorus cincinnatiensis* Miller and Faber Holotype
Eden—Economy (Ord.). Cincinnati, Ohio.
Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol. 17,
p. 147, pl. 8, figs. 15-16, 1894.
- 3987- *Terebratula occidentalis* Miller 3 Cotypes
3989. (See *Dielasma occidentalis* (Miller))
Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, Adv. Sheets, 18th Rep. Dept. Geol. Nat. Res. Ind.,
p. 59, pl. 9, figs. 10-13, 1893.
3357. *Trigonia stiebeli* Miller Holotype
(Cretaceous.). S. E. Arizona.
Miller, Jour. Cincinnati Soc. Nat. Hist., Vol. 4, p. 259, pl. 6,
fig. 1, Oct. 1881.
3358. *Troostocrinus neglectus* Miller Holotype?
St. Louis group (Miss.). Washington County, Indiana.

- 3194-1. *Whipplella cuneiformis* Holland Paratype
 Nineveh limestone (Permian).
 Limestone Hill, Wood County, West Virginia. Holland,
 Ann. of Carnegie Mus., Vol. 22, p. 344, pl. 25, fig. 5, 1934.
- 3194-2. *Whipplella depressa* Holland Paratype
 Nineveh limestone (Permian)
 Limestone Hill, Wood County, West Virginia.
 Holland, Am. of Carnegie Mus., Vol. 22, p. 345, pl. 25,
 fig. 7, 1934.
- 3194-3. *Whipplella magnitata* Holland Paratype
 Nineveh limestone (Permian). Nineveh, Greene County,
 Pennsylvania.
 Holland, Ann. of Carnegie Mus., Vol. 22, p. 346, pl. 25,
 fig. 2, 1934.
- 3194-6. *Whipplella ninevehensis* Holland Paratype
 Nineveh limestone (Permian). Nineveh, Greene County,
 Pennsylvania.
 Holland, Ann. of Carnegie Mus., Vol. 22, p. 347, pl. 25,
 fig. 3, 1934.
- 3194-4. *Whipplella ovata* Holland Paratype
 Nineveh limestone (Permian). Nineveh, Greene County,
 Pennsylvania.
 Holland, Ann. of Carnegie Mus., Vol. 22, pl. 25, fig. 4,
 p. 348, 1934.
- 3194-5. *Whipplella parvula* Holland Paratype
 Nineveh limestone (Permian). Nineveh, Greene County,
 Pennsylvania.
 Holland, Ann. of Carnegie Mus., Vol. 22, pl. 25, fig. 6,
 p. 347, 1934.
3786. *Whiteavesia corrugata* (Miller and Faber) 5 Cotypes
 (See *Modiolopsis corrugata* Miller and Faber)
 Maysville—Corryville (Ord.). Cincinnati, Ohio.
 Miller and Faber, Jour. Cincinnati Soc. Nat. Hist., Vol.
 15, p. 79, pl. 1, fig. 11, 1892.
3790. *Whiteavesia pholadiformis* (Hall) Plesiotype
 (See *Modiolopsis pholadiformis* Hall)
 Richmond (Ord.). Richmond, Indiana.
 Miller, Cincinnati Quart. Jour. Sci., Vol. 1, p. 282, 1874.
3362. *Woodocrinus pocillum* (Miller) 14 Paratypes?
 (See *Zeacrinus pocillum* Miller)
 Keokuk group (Miss.). Boonville, Missouri.
 Miller, Bull. Geol. Surv. Mo., No. 4, p. 28, pl. 4, figs. 1-2, 1891.
3359. *Zaphrentis calyculus* Miller 56 Cotypes
 3359a. Chouteau limestone (Miss.). Pettis County, Missouri.
 Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 620, pl. 1,
 figs. 13-14, 1892.
3916. *Zaphrentis chouteauensis* Miller 17 Cotypes
 3917. Chouteau limestone (Miss.). Sedalia, Missouri.
 Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 620, pl. 1,
 figs. 11-12, 1892.

3940. *Zaphrentis tantilla* Miller 32 Cotypes
3941. Chouteau limestone (Miss.). Sedalia, Missouri.
Miller, 17th Rep. Dept. Geol. Nat. Res. Ind., p. 621, pl. 1,
Figs. 23-24, 1892.
3360. *Zaphrentis tenella* Miller Holotype and 32 Paratypes
3360a. Chouteau limestone (Miss.). Sedalia, Pettis County, Missouri.
Miller, Adv. Sheets, 17th Rep. Dept. Geol. Nat. Res. Ind.,
p. 11, pl. 1, figs. 17-18, 1891.
3861. *Zeacrinus blairi* Miller and Gurley Holotype
Keokuk group (Miss.). Boonville, Missouri.
Miller and Gurley, Ill. State Mus. Nat. Hist., Bull. No. 7,
p. 66, pl. 4, figs. 5-6, 1895.
3361. *Zeacrinus commaticus* Miller 44 Paratypes?
Keokuk group (Miss.). Boonville, Missouri.
Miller, Geol. Surv. Mo., Bull. No. 4, p. 36, pl. 5, figs. 10-11,
1891.
3362. *Zeacrinus pocillum* Miller 14 Paratypes?
(See *Woodocrinus pocillum* Miller)
Keokuk group (Miss.). Boonville, Missouri.
Miller, Geol. Surv. Mo., Bull. No. 4, p. 28, 1891.
-